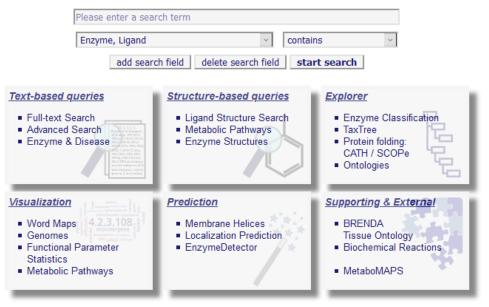




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BRENDA Tutorial

- Search for protein sequences
- Localization prediction
- Search in Genomes
- 3D structures
- Functional parameters

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There are several options for protein sequence searches:

- Quick Search
- Enzyme Summary Page
- Classic View



ber of







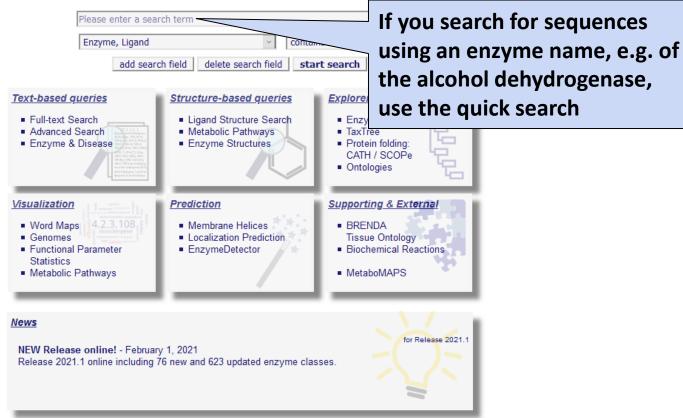






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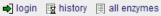
Quick Search











☐ Refine search

Field Hits found **Chose "Enzyme Names"** Enzyme Names (Synonyms) 44 to continue Ligands

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Quick Search

☐ Refine search

Search Enzyme Names (Synonyms)

Search term: alcohol dehydrogenase



EC Number ▼ ▲	Recommended Name ▼▲	Synonyms ▼▲	Commentary VA	
○#** (i) 1.1.1.1	Click on this idea of the control of	e I, alcohol dehydrogenase II, Alcohol dehydrogenase-B2, aldehyde/alcohol e, aliphatic alcohol dehydrogenase, bifunctional acetaldehyde-alcohol e, class III alcohol dehydrogenase, Gastric alcohol dehydrogenase, iron-containing ogenase, long-chain alkyl alcohol dehydrogenase, medium chain alcohol e, medium-chain secondary alcohol dehydrogenase, NAD(H)-dependent alcohol	-	
∌ ∕o ∰ 1.1.1.105	all-trans-retinol dehydrogenase (NAD+)	alcohol dehydrogenase		
☆ ∰ 1.1.1.144	perillyl-alcohol dehydrogenase	perillyl alcohol dehydrogenase, perillyl-alcohol dehydrogenase	-	
<i>‡</i> ∕o ((1.1.1.192	long-chain-alcohol dehydrogenase	long-chain alcohol dehydrogenase, long-chain alkyl alcohol dehydrogenase, long-chain-alcohol dehydrogenase		
∌ ் ்ழி 1.1.1.194	coniferyl-alcohol dehydrogenase	coniferyl alcohol dehydrogenase, coniferyl-alcohol dehydrogenase	-	
○ #% f∭ 1.1.1.195	cinnamyl-alcohol dehydrogenase	alcohol dehydrogenase, cinnamyl alcohol dehydrogenase, cinnamyl alcohol dehydrogenase 1, cinnamyl alcohol dehydrogenase 2, cinnamyl alcohol dehydrogenase 2, cinnamyl alcohol dehydrogenase 3, cinnamyl alcohol dehydrogenase 4, cinnamyl alcohol dehydrogenase 5, cinnamyl alcohol dehydrogenase 7, cinnamyl alcohol dehydrogenase 9, cinnamyl alcohol dehydrogenase C, cinnamyl alcohol dehydrogenase, cinnamyl-alcohol dehydrogenase	-	
○夢诊 負 1.1.1.2	alcohol dehydrogenase (NADP+)	alcohol dehydrogenase (NADP+), alcohol dehydrogenase C, alcohol dehydrogenase [NADP(+)], Alcohol dehydrogenase [NADP+], liver alcohol dehydrogenase, NADP(H)-dependent alcohol dehydrogenase, NADP-alcohol dehydrogenase, NADP-linked aryl alcohol dehydrogenase, putative iron alcohol dehydrogenase, short-chain alcohol dehydrogenase, yeast alcohol dehydrogenase		
# ☆ 👊 1.1.1.244	methanol dehydrogenase	group III NAD-dependent alcohol dehydrogenase		
○ #☆ Ու 1.1.1.245	cyclohexanol dehydrogenase	alcohol dehydrogenase	-	
☆ 👊 1.1.1.257	4-(hydroxymethyl)benzenesulfonate dehydrogenase	ulfobenzyl alcohol dehydrogenase		

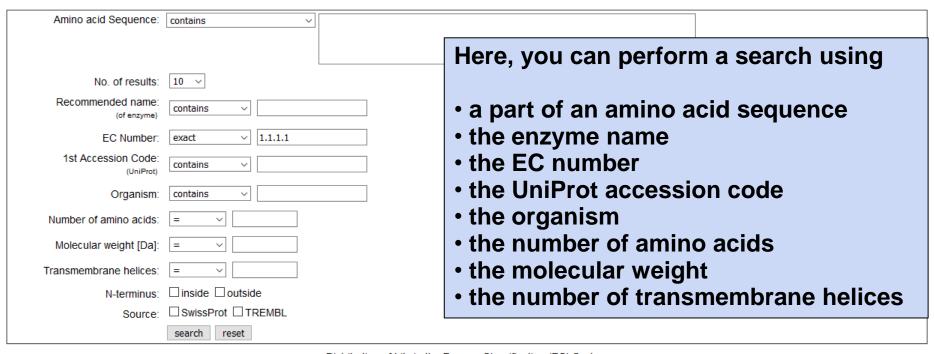


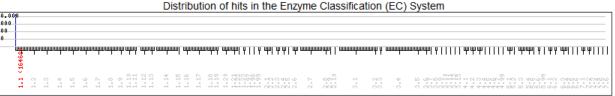






Amino acid sequence search





EC Number ▲▼	Recommended Name ▲▼ Organism ▲▼	UNIPROT ▲▼	No of trans. helices ▲▼ No of amino acids ▲▼	MW [Da]▲▼	Source ▲▼	Tools/Links
1.1.1.1	alcohol dehydrogenase Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh)		0 transm. helices 346 amino acids	36632	Swiss-Prot	7 🗞 # 8
1.1.1.1	alcohol dehydrogenase Mycobacterium tuberculosis (strain ATCC 25618 / H37Rv)		0 transm. helices 346 amino acids	36632	Swiss-Prot	7 🗞 🗯 8
1.1.1.1	alcohol dehydrogenase Rhizobium meliloti (strain 1021)	O31186	0 transm. helices 340 amino acids	36235	Swiss-Prot	글 🧐 # 8
1.1.1.1	alcohol dehydrogenase	Q7U1B9	0 transm, helices	39748	Swiss-Prot	= (M) (M) (=

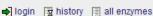






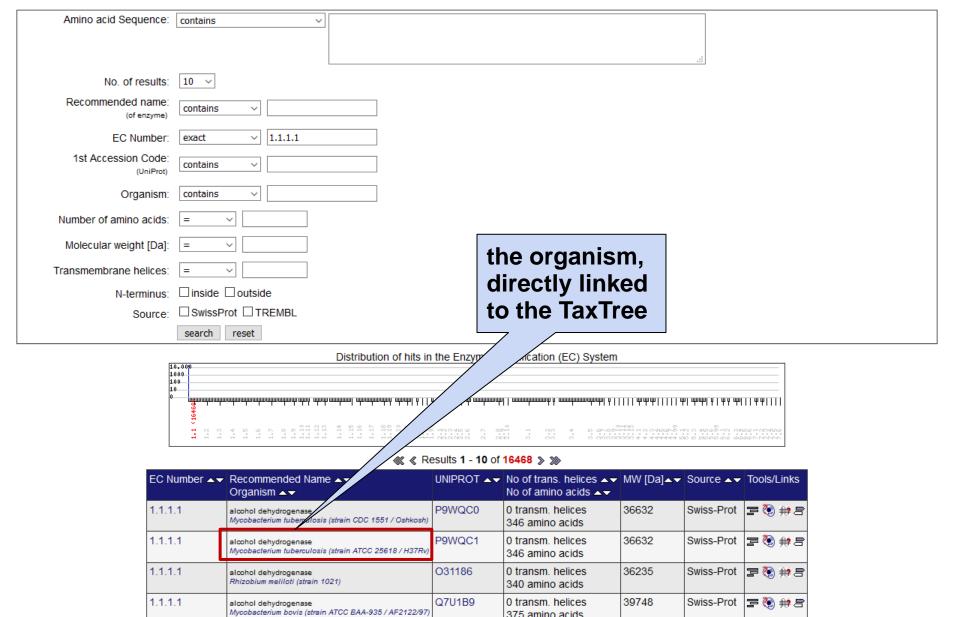






Amino acid sequence search

On the result page you find...



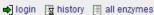






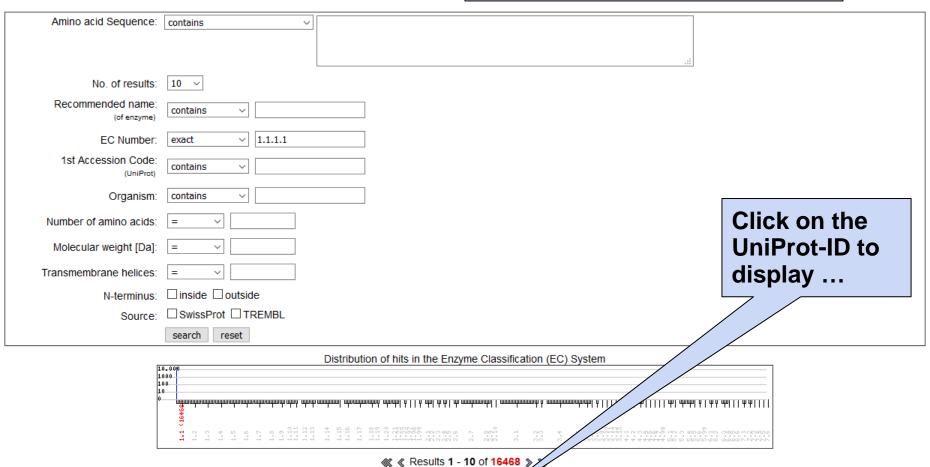






Amino acid sequence search

On the result page you find...



EC Number ▲▼	Recommended Name ▲▼ Organism ▲▼	UNIPROT ▲▼	No of amino acids ▲▼	MW [Da]▲▼	Source ▲▼	Tools/Links
1.1.1.1	alcohol dehydrogenase Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh)	P9WQC0	0 transm. helices 346 amino acids	36632	Swiss-Prot	7 🐼 🗯 5
1.1.1.1	alcohol dehydrogenase Mycobacterium tuberculosis (strain ATCC 25618 / H37Rv)	P9WQC1	0 transm. helices 346 amino acids	36632	Swiss-Prot	7 🐼 🗯 5
1.1.1.1	alcohol dehydrogenase Rhizobium meliloti (strain 1021)	O31186	0 transm. helices 340 amino acids	36235	Swiss-Prot	F 🐼 🗰 5
1.1.1.1	alcohol dehydrogenase Mycobacterium bovis (strain ATCC BAA-935 / AF2122/97)	Q7U1B9	0 transm. helices	39748	Swiss-Prot	F 🐼 🗯 5



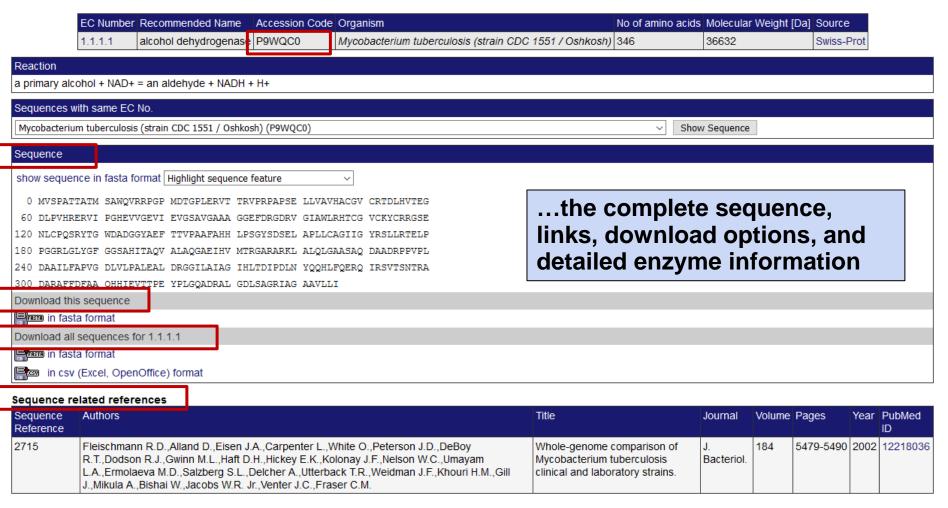








Sequence of ADHA MYCTO



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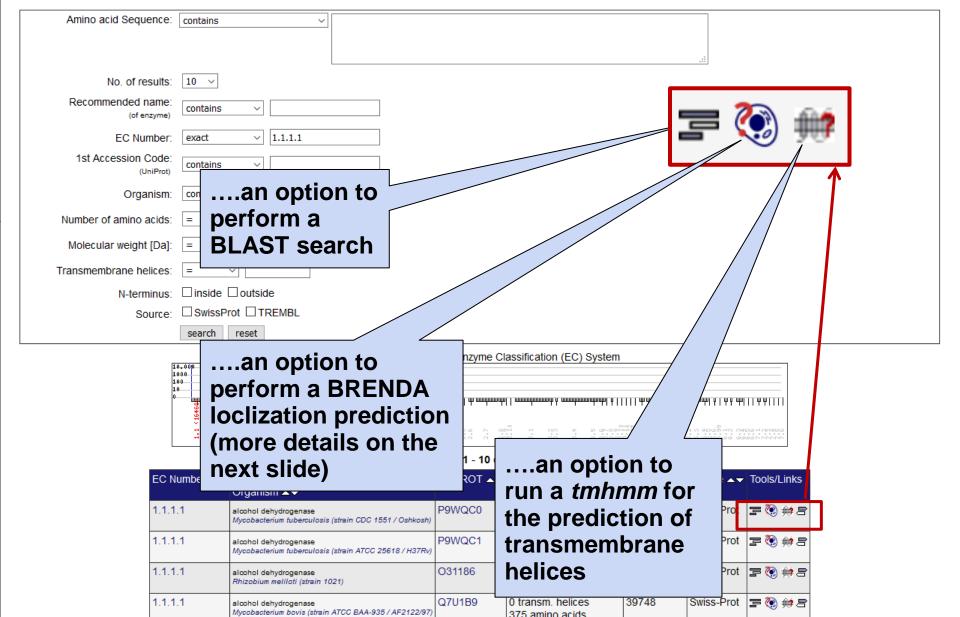




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Amino acid sequence search

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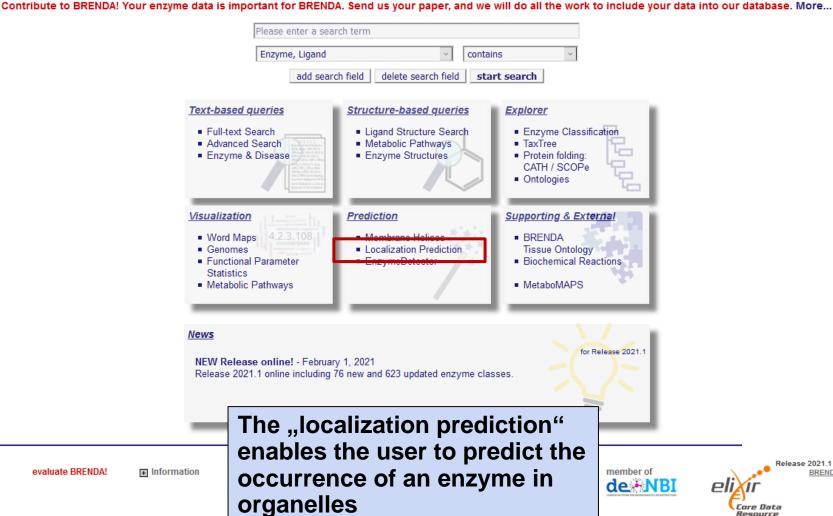
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Localization Prediction for Eukaryotes - TargetP-1.1

1st Accession Code: (UniProt)	exact		
Localization:	☐ Chloroplast ☐ Mitochondrion	,	
	☐ Secretory Pathway ☐ other Location ☐		Here you find the search
Reliability Class:	□1 □2 □3 □4 □5 ₪		options for the localization
EC Number:	contains		
Recommended name: (of enzyme)	contains		prediction
Organism:	contains		
Number of amino acids:	=		
Source:	☑ Swiss-Prot ☑ TrEMBL		
No. of results:	10 ~		
	search reset		

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The N-terminal signal peptide sequence is used to predict the localization of the enzyme in chloroplasts, mitochondria, or in the secretory pathways (ER, Golgi)







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Localization Prediction for Eukaryotes - TargetP-1.1

1st Accession Code: (UniProt) Localization: Reliability Class:	exact Chloroplast Mitochol Secretory Pathway C	ther Location	a			ı find	a specific EC the predicted	
(1 is best) EC Number:								
Recommended name: (of enzyme) Organism:	contains V				the UniPro	t-ID		
Number of amino acids:	=							
Source:	☑ Swiss-Prot ☑ TrEMBL	the or	aaniem	\ <u>C</u>			the legalization	
No. of results:	10 ∨		ganism	15			the localization	
	search reset	_/ _/					/	
	10.000 1000 100 100 0 0 0 0 0 0 0 0 0 0	1	//-	Enzym si	/	ಕ್ಕೂ ಬರು ರಾಭಾಗಾಗಿ ಪ್ರಸ್ತು ಈಗ ಎ ಈಗು ಕೆಪ್ಪಿ		
EC Number 🗻	Recommended N/	UNIPROT ▲▼	L alization -	Reliability Cl	ass No of amino acids 🛧	Source 🔊	Links	
4.1.1.39	ribulose-bisphospha arboxylase	A9NXP2	Chloroplast	1	188 amino acids	TrEMBL	Check for transm. helices	
4.1.1.39	ribulose-bisphost ate carboxylase	A0A0E0FBG0	Chloroplast	2	175 amino acids	TrEMBL	Check for transm. helices	
4.1.1.39	ribulose-bisphosphate carboxylase Brassica cretica	A0A3N6QAI0	Chloroplast	3	188 amino acids	TrEMBL	Check for transm. helices	
4.1.1.39	ribulose-bisphosphate carboxylase Arabidopsis suecica	A0A075M996	Chloroplast	3	163 amino acids	TrEMBL	Check for transm. helices	
4.1.1.39	ribulose-bisphosphate carboxylase Prunus dulcis	A0A4Y1QRQ3	Chloroplast	1	184 amino acids	TrEMBL	Check for transm. helices	
4.1.1.39	ribulose-bisphosphate carboxylase Zostera marina	A0A0K9NJB1	Chloroplast	1	182 amino acids	TrEMBL	Check for transm. helices	





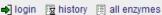


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Localization Prediction for Eukaryotes - TargetP-1.1

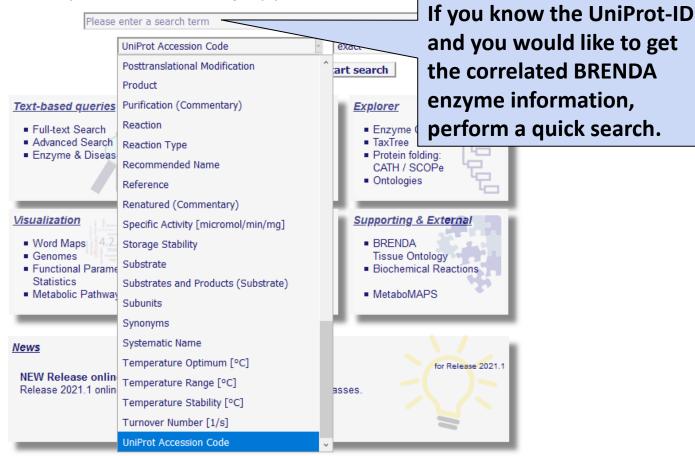
1st Accession Code: (UniProt) Localization: Reliability Class: (1 is best)	Exact	ther Location	1		you searcl ımber, you		a specific EC
EC Number: Recommended name: (of enzyme) Organism:	contains V 4.1.1.39 contains V Contains						the number of ocalizations
Number of amino acids: Source: No. of results:	=]			7 /		
Distribution of hits in the Enzyme Classific 10,000 1000 100							o como e centro
EC Number 🛋	Recommended Name ▲▼ Organism ▲▼	UNIPROT ▲▼	Localization 🔷	Reliability Class 🔺	No of amino acids ▲▼	Source A	Links
4.1.1.39	ribulose-bisphosphate carboxylase Picea sitchensis	A9NXP2	Chloroplast	1	188 amino acids	TrEMBL	Check for transm. helices
4.1.1.39	ribulose-bisphosphate carboxylase Oryza meridionalis	A0A0E0FBG0	Chloroplast	2	175 amino acids	TrEMBL	Check for transm. helices
4.1.1.39	ribulose-bisphosphate carboxylase Brassica cretica	A0A3N6QAI0	Chloroplast	3	188 amino acids	TrEMBL	Check for transm. helices
4.1.1.39	ribulose-bisphosphate carboxylase Arabidopsis suecica	A0A075M996	Chloroplast	3	163 amino acids	TrEMBL	Check for transm. helices
4.1.1.39	ribulose-bisphosphate carboxylase Prunus dulcis	A0A4Y1QRQ3	Chloroplast	1	184 amino acids	TrEMBL	Check for transm. helices
4.1.1.39	ribulose-bisphosphate carboxylase Zostera marina	A0A0K9NJB1	Chloroplast	1	182 amino acids	TrEMBL	Check for transm. helices







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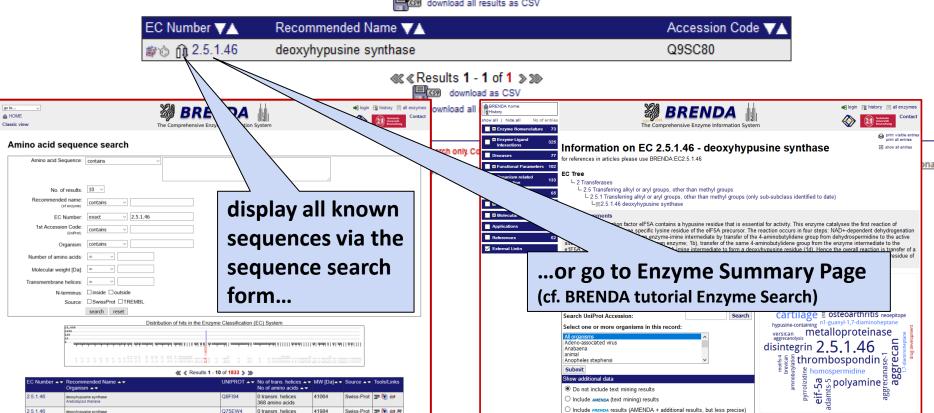


Advanced Search

Search UniProt Accession

Search term: Q9SC80

















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> Sequence/Protein-specific searches using the "Classic View"

Text-based queries

- Full-text Search
- Advanced Search
- Enzyme & Disease

Visualization

- Word Maps
- Genomes
- Functional Parameter Statistics
- Metabolic Pathways

Structure-based queries

- Ligand Structure Search
- Metabolic Pathways
- Enzyme Structures

Explorer

- Enzyme Classification
- TaxTree
- Protein folding: CATH / SCOPe
- Ontologies

Prediction

- Membrane Helices
 - Localization Prediction
 - EnzymeDetector

Supporting & External

- BRENDA Tissue Ontology
- Biochemical Reactions
- MetaboMAPS

News

NEW Release online! - February 1, 2021 Release 2021.1 online including 76 new and 623 updated enzyme classes. for Release 2021.1

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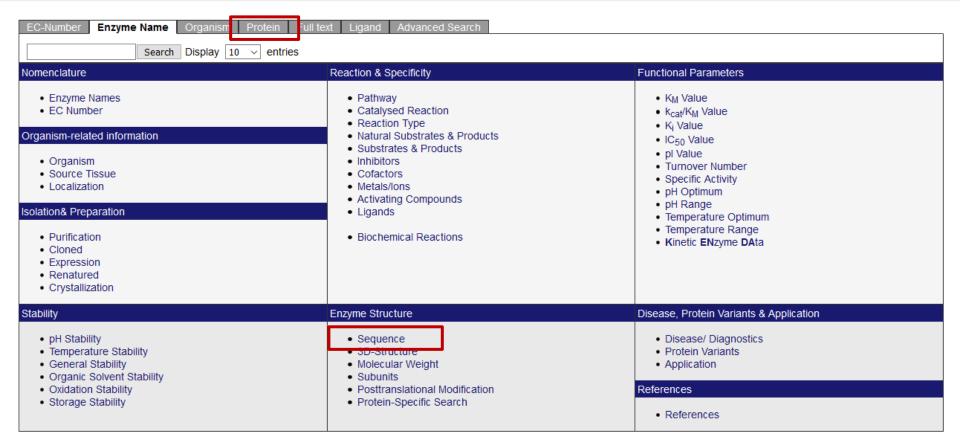






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Search UniProt Accession

UniProt Accession: contai	tains v show 10 v results
Refine your search	
Recommended Name: 🗹 contai	tains ~
EC Number: contai	tains
UniProt: 🗹 contai	tains v
Organism: contai	You can perform searches
search	entering:
Accession Number or Sequence ID from SwissProt or TREMBL	
Please note the following possibilities for searching Acession Numbers:	• the UniProt-ID
1. always use 'contains' if you search a part of an accession number 2. use '_' to choose exact one but any accession number, e.g. 'D_D' finds 'D5D' and 'D6D' etc.	• the Enzyme Name
a. If this search string should be a part of the accession number write "*D_D*". b. If this should be the beginning of a sequence write 'D_D*".	• the EC Number
c. If this should be the end of a sequence write "D_D". 3. use "" to choose none or any desired number of accession numbers	• the Organism

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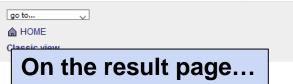
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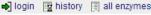




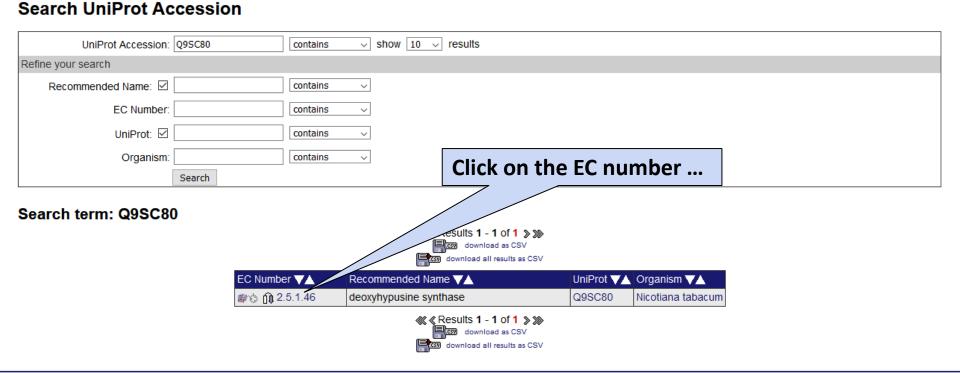








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External Links









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nzyme-

Information on EC 2.5.1.46 - deoxyhypusine synthase and Organism(s) Nicotiana tabacum

for references in articles please use BRENDA:EC2.5.1.46

EC Tree

2 Transferases

□ 2.5 Transferring alkyl or aryl groups, other than methyl groups

□ 2.5.1 Transferring alkyl or aryl groups, other than methyl groups (only sub-subclass identified to date)

L III 2.5.1.46 deoxyhypusine synthase

IUBMB Comments

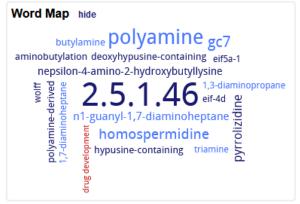
monooxygenase.

The eukaryotic initiation factor elF5A contains a hypusine residue that is ess one specific lysine residue of the eIF5A precursor. The reaction occurs in fo imine intermediate by transfer of the 4-aminobutylidene group from dehydro of the same 4-aminobutylidene group from the enzyme intermediate to the e

...to display the protein-specific **Enzyme Summary Page**

ansfer deoxyhypusine residue (1d). Hence the overall reaction is transfer of a 4-aminobutyl group. For the plant enzyme, homospermidine can substitute for spermidine and putrescine can substitute for the lysine residue of the eIF5A precursor. Hypusine is formed from deoxyhypusine by the action of EC 1.14.99.29, deoxyhypusine

Specify your search results Mark! Mark a special word or phrase in this record: Search Reference ID: Search Search Search UniProt Accession: Select one or more organisms in this record: Leishmania donovani MHOM/IN/1983/AG83 Mus musculus Mus musculus C57/BL6J Neurospora crassa Nicotiana tabacum Submit This record set is specific for: Nicotiana tabacum Show additional data Do not include text mining results Include AMENDA (text mining) results Include FRENDA results (AMENDA + additional results, but less precise)





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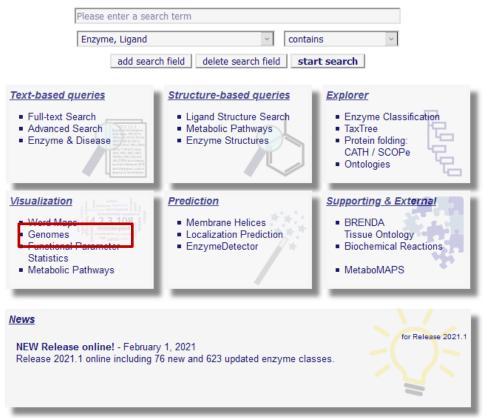


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The "Genome Explorer" enables the user to search for enzymes and/or their comparison with different genomes.





UPDATE



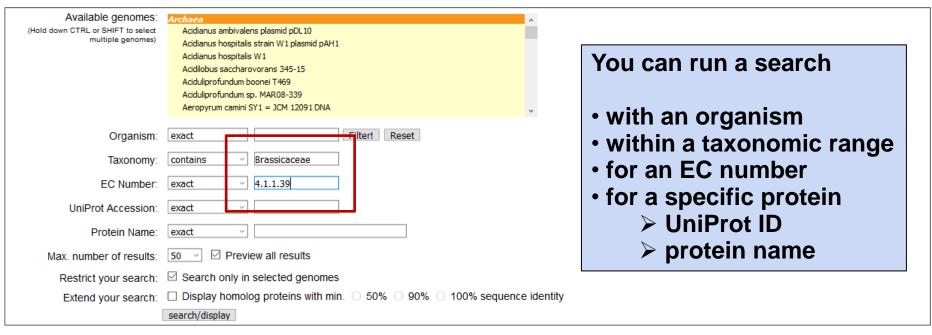












Click here for information on the data sources used for the Genome Explorer.

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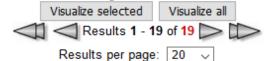
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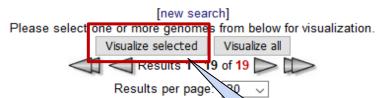
[new search]

Please select one or more genomes from below for visualization.



Organism	Gene	Product	EC Number	Accession	
Aethionema cordifolium	rbcL	large subunit of riblose-1,5-bisphosphate carboxylase/oxygenase Ribulose bisphosphate carboxylase large chain	4.1.1.39	A4QJC3	
Aethionema grandiflorum	rbcL	large subunit of riblose-1,5-bisphosphate carboxylase/oxygenase Ribulose bisphosphate carboxyl		A4QJK7	
Arabidopsis thaliana (thale cress)	rbcL	large subunit of riblose-1,5-bisph Ribulose bisphosphate carboxyle find	ige you		
Arabis alpina (gray rockcress)	rbcL	rbcL protein			
Arabis hirsuta	rbcL	Ribulose bisphosphate carboxyl: • the organism			
Barbarea verna (early winter cress)	rbcL	large subunit of riblose-1,5-bisph Ribulose bisphosphate carboxyl name	vil		
Brassica napus (rape)	rbcL	ribulose-1,5-bisphosphate carbo: Ribulose-1,5-bisphosphate carbo: • the EC number	r		
Capsella bursa-pastoris (shepherd's purse)	rbcL	Ribulose bisphosphate carboxyl	sion co	de	
Cardamine impatiens	rbcL	ribulose 1,5-bisphosphate carboxylase/oxygenase large subunit	4.1.1.39	A0A0B4LD24	
Cardamine resedifolia	rbcL	ribulose 1,5-bisphosphate carboxylase/oxygenase large subunit	4.1.1.39	A0A0B4LD84	
Crucihimalaya wallichii	rbcL	large subunit of riblose-1,5-bisphosphate carboxylase/oxygenase Ribulose bisphosphate carboxylase large chain	4.1.1.39	A4QKT9	
Draba nemorosa	rbcL	large subunit of riblose-1,5-bisphosphate carboxylase/oxygenase. Ribulose bisphosphate carboxylase large chain	4.1.1.39	A4QL27	
Lepidium virginicum	rbcL	large subunit of riblose-1,5-bisphosphate carboxylase/oxygenase Ribulose bisphosphate carboxylase large chain	4.1.1.39	A4QLB4	

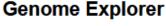


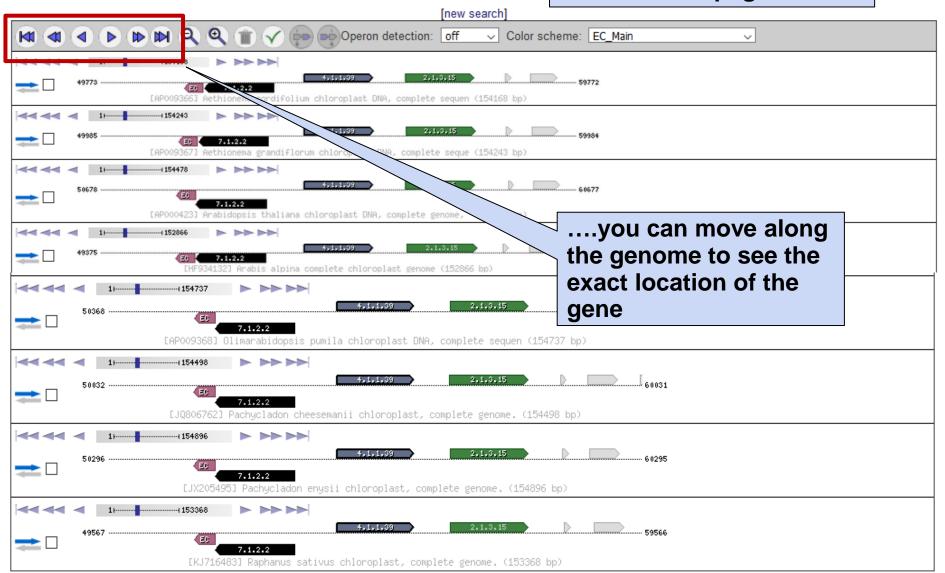


~	Organism	Gene	Product EC Num	nber Accession
	Aethionema cordifolium	rbcL	large subunit of riblose-1,5-bisph e carboxylase/oxygenase 4.1.1.39 Ribulose bisphosphate carboxylas	A4QJC3
\checkmark	Aethionema grandiflorum	rbcL	large subunit of riblose-1,5-bisphospha lase/oxygenase 4.1.1.39 Ribulose bisphosphate carboxylase large	A4QJK7
	Arabidopsis thaliana (thale cress)	rbcL	large subunit of riblose-1,5-bispho Ribulose bisphosphate carboxylas	
~	Arabis alpina (gray rockcress)	rbcL	rbcL protein details on the selec	tea _{JST4}
	Arabis hirsuta	rbcL	large subunit of riblose-1,5-bispho Ribulose bisphosphate carboxylase large chain)K26
\checkmark	Barbarea verna (early winter cress)	rbcL	large subunit of riblose-1,5-bisphosphate carboxylase/oxygenase Ribulose bisphosphate carboxylase large chain 4.1.1.39	A4QKB3
	Brassica napus (rape)	rbcL	ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit Ribulose-1,5-bisphosphate carboxylase/oxygenase	Q71SX0
\checkmark	Capsella bursa-pastoris (shepherd's purse)	rbcL	large subunit of riblose-1,5-bisphosphate carboxylase/oxygenase Ribulose bisphosphate carboxylase large chain 4.1.1.39	A4QKK0
\checkmark	Cardamine impatiens	rbcL	ribulose 1,5-bisphosphate carboxylase/oxygenase large subunit 4.1.1.39	A0A0B4LD24
~	Cardamine resedifolia	rbcL	ribulose 1,5-bisphosphate carboxylase/oxygenase large subunit 4.1.1.39	A0A0B4LD84
	Crucihimalaya wallichii	rbcL	large subunit of riblose-1,5-bisphosphate carboxylase/oxygenase Ribulose bisphosphate carboxylase large chain 4.1.1.39	A4QKT9
\checkmark	Draba nemorosa	rbcL	large subunit of riblose-1,5-bisphosphate carboxylase/oxygenase. 4.1.1.39 Ribulose bisphosphate carboxylase large chain	A4QL27
	Lepidium virginicum	rbcL	large subunit of riblose-1,5-bisphosphate carboxylase/oxygenase Ribulose bisphosphate carboxylase large chain 4.1.1.39	A4QLB4
	Lobularia maritima	rbcl	large subunit of riblose-1.5-bisphosphate carboxylase/oxygenase 4.1.1.39	A4QLK2



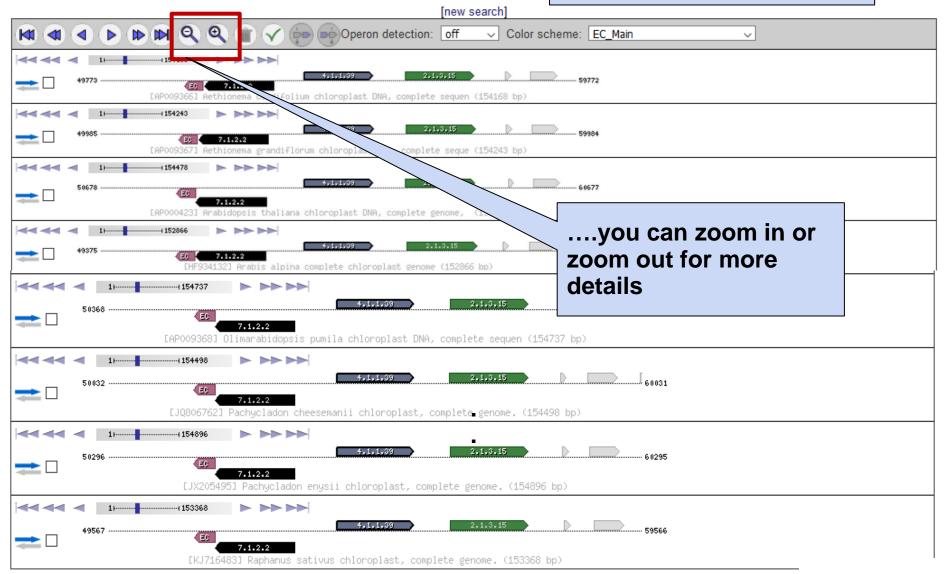












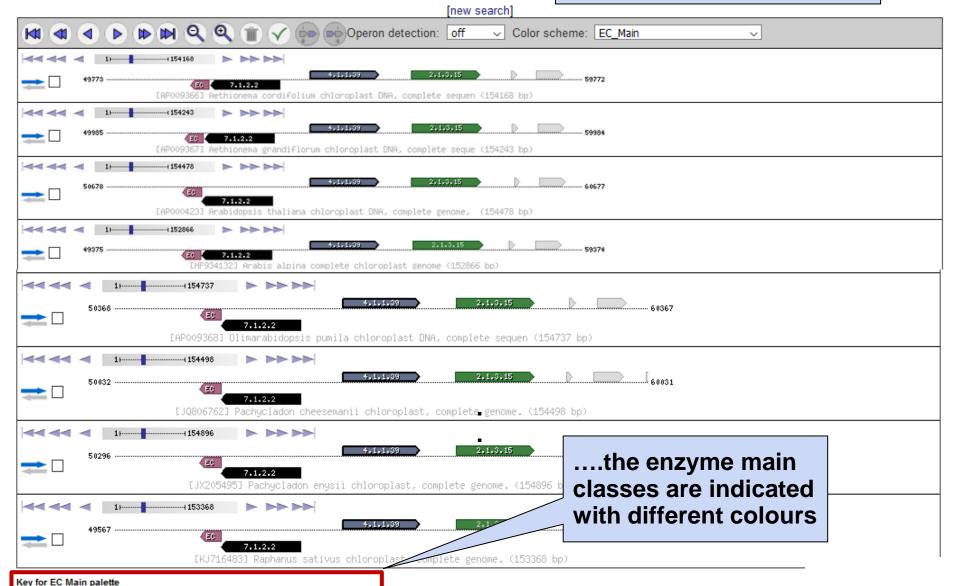








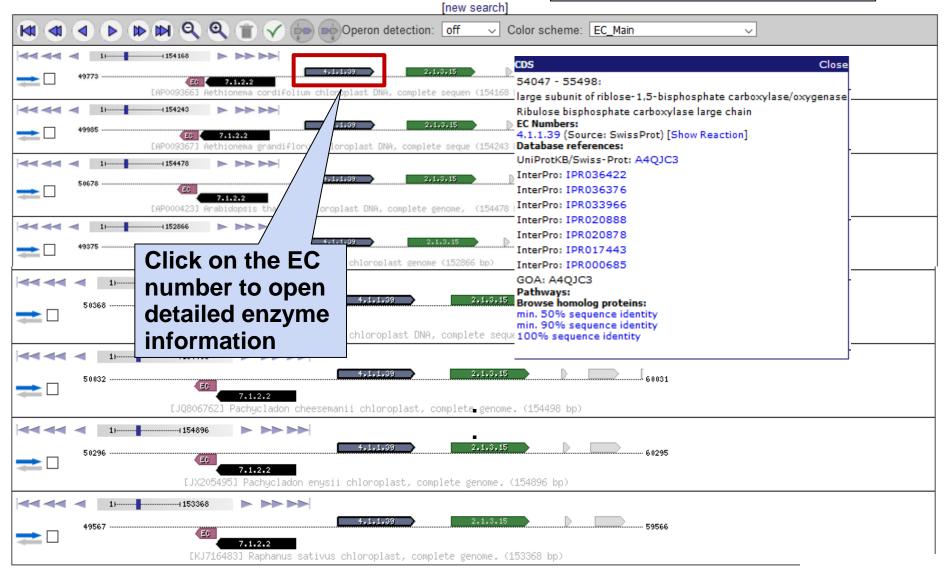
Oxidoreductases Transferases Hydrolases Lyases Isomerases Ligases Translocases

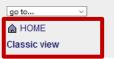














Contact

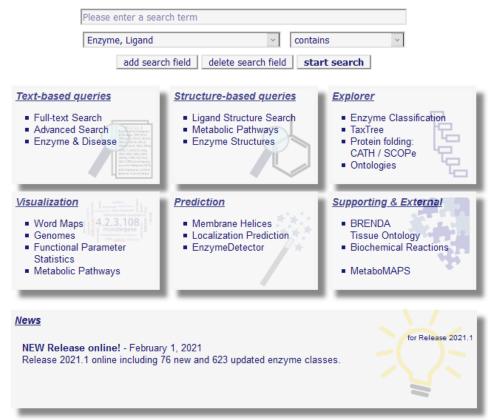


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To use the 3D-view of protein structures, first switch to "Classic view"





UPDATE!

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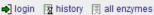


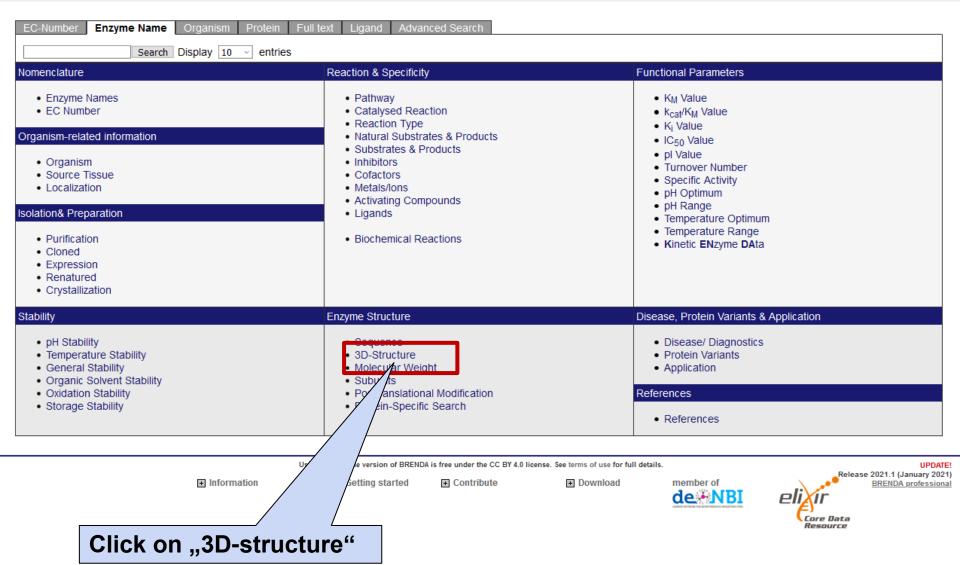


























Search PDB ID

PDB ID: [contains show 10 results
Refine your search	
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Chain: □ [contains
UniProt: ☑ [contains
Organism:	contains
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PDB identification code directly linked to the PDB database

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Enzyme 3D structures (PDB) can be searched with

- the PDB-ID
- the enzyme name
- the EC number
- the UniProt-ID









The Comprehensive Enzyme Information System

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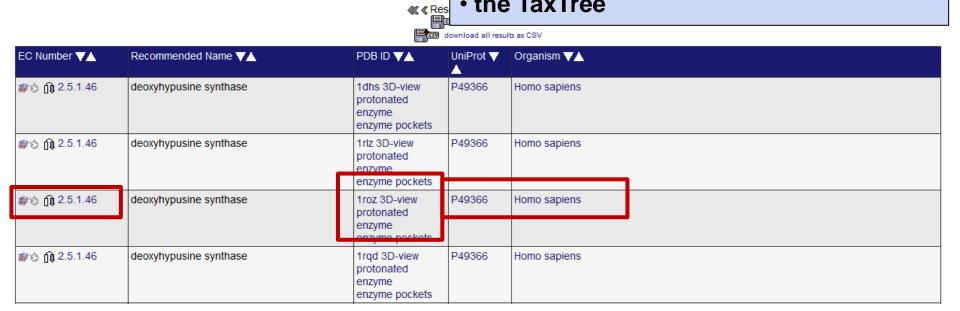
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Recommended Name: 🗹	contains	~
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UniProt: ☑	contains	~
Organism:	contains	~
Search		

On the result page you find direct links to

- the Enzyme Summary Page (EC number)
- the Word Map
- the reaction catalyzed
- sequence information
- the PDB ID 1roz
- the 3D structure view
- Proteins Plus Protoss protonated enzyme
- Proteins Plus DoGSiteScorer enzyme pockets
- the TaxTree

Search term:









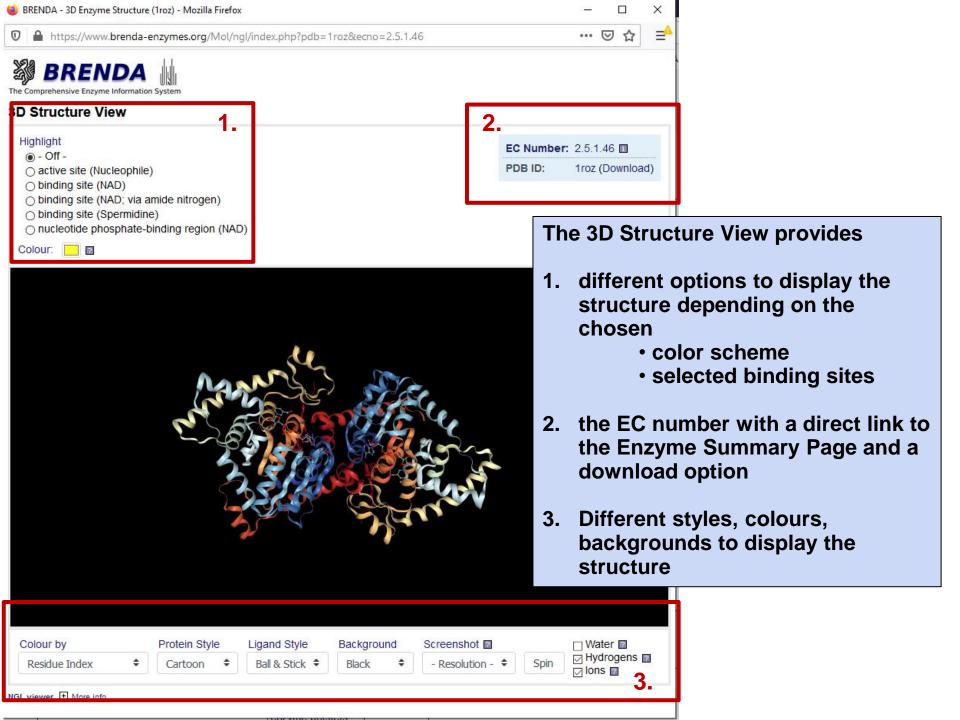
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Search PDR ID

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∌ ☆ ∰ 2.5.1.46	deoxyhypusine synthase	e 1rqd 3D-view protonated enzyme	P49366	Homo sapiens

enzyme pockets







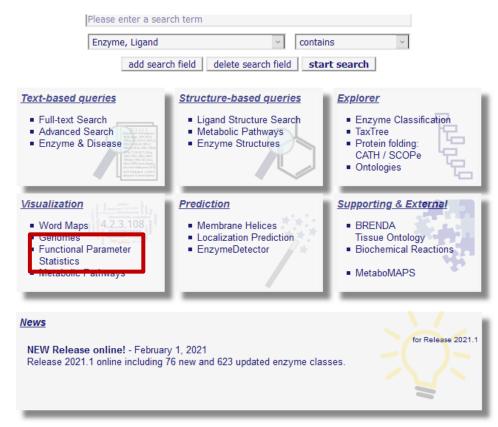




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The tool "Functional Enzyme Statistics" provides the graphical display of the parameters

- in a taxonomic group or organism
- of one specific EC number or an EC subclass

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Core Data





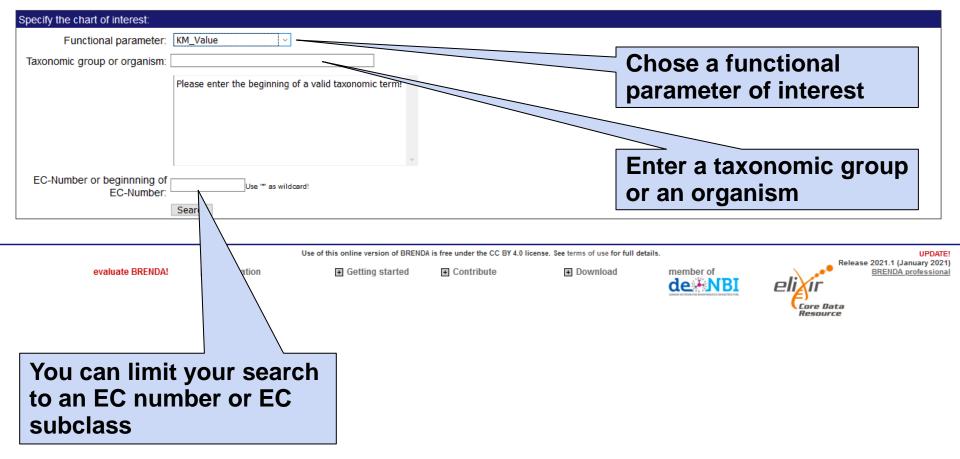








Functional Enzyme Parameters













Functional Enzyme Parameters

Specify the chart of interest:			
Functional parameter:	Temperature_Optimum v		
Taxonomic group or organism: Viridiplantae			
	Viridiplantae (kingdom)		
	Viridiplantae environmental sample (species)		
	Viridiplantae sp. AZH1 (species)		
	Viridiplantae sp. AZS1 (species)		
	Viridiplantae sp. DHK-2018 (species)		
	Viridiplantae sp. ZAA2 (species)		
EC-Number or beginnning of EC-Number:	Use *** as wildcard!		
Search			

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If you interested, for example in an overview of temperature optima within the plant kingdom, choose the corresponding taxonomic group and the functional parameter...



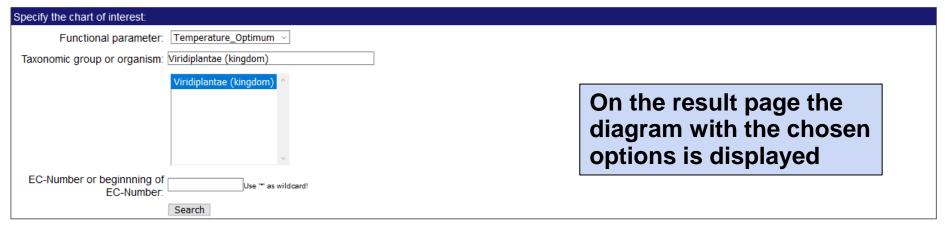








Functional Enzyme Parameters



Shown are the Temperature Optimums for all enzymes in Viridiplantae (kingdom) Temperature_Optimum

