

MetalMine Tutorial

2. PDB Search

You can search the MetalMine database with PDB id.

MetalMine: A Database of Functional Metal ion Binding Sites in Proteins

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MetalMines

- Cobalt
- Copper
- Manganese
- Molybdenum
- Nickel
- Vanadium
- Tungsten
- In Preparation
- Iron
- Iron(hem)
- Iron(Sulfur)
- Zinc
- Magnesium
- Calcium

Welcome to MetalMine!

Here, you can,

1. Start browsing from the left column.
2. From "BLAST", search Metal-Binding residue in your sequence.
3. Search proteins by PDB id.

Please check out "About" and "Tutorial" for more details.

Execute

Text box for PDB query

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Simply put a PDB id in the text box at the MetalMine Home page, and press "Execute" button.

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Your query was

1plc

Metal binding sites involved in 1plc are

[Cupredoxin/Multicopperoxidase \(Blue Copper Site\)](#) in coppermine

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The output shows a list of metal binding sites included in the PDB structure. The site name highlighted with light cyan color is linked to the metal binding sight page.

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MetalMines	Coppermine	pdbid	metal	residue	hetero mol
Cobalt	CuER Copper Efflux Regulator	1a3z	CU	H85_ C138_ H143_ M148_	
Copper	Cu Chaperone	1a6z	CU	H85_ C138_ H143_ M148_	
Manganese	Hemocyanin	1b95	CU	H95_ C136_ H145_ M150_	
Molybdenum	Catechol oxidase/Tyrosinase	1cur	CU	H85_ C138_ H143_ M148_	
Nickel	Cu-Zn Superoxide Dismutase (Catalytic Site)	1gs7	CU	H89A C130A H139A M144A	
Tungsten	Copper Resistance Protein = CopC Site1	1gs8	CU	H89A C130A H139A M144A	
Vanadium	Metal Binding Protein from D. Radiodurans	1gw1	CU	H85A C138A H143A M148A	
In Preparation	Cupredoxin/Multicopperoxidase (Blue Copper Site)	1haw	CU	H89A C130A H139A M144A	
Iron	Cytochrome C Oxidase (Dicopper Site)	1kcb	CU	H95A C136A H145A M150A	
Iron(hem)	Nitroreductase	1nkr	CU	H95A C136A H145A M150A	

To get back to the search result, it may be convenient to use the "back" button of your browser.