



DAAO Protein Crystal

Catalog: CBCRY46

PRODUCT INFORMATION

Name	DAAO Protein Crystal
Cat No.	CBCRY46
Fragment	Full length
Protein Description	D-amino Acid Oxidase 3
Background	This gene encodes the peroxisomal enzyme D-amino acid oxidase. The D-amino acid oxidase is a flavoprotein which uses flavin adenine dinucleotide (FAD) as its prosthetic group. Its substrates include a wide variety of D-amino acids, but it is inactive on the naturally occurring L-amino acids. It regulates the level of the neuromodulator D-serine in the brain, has high activity towards D-DOPA and contributes to dopamine synthesis.
Protein Classification	Oxidoreductase
Structure Weight	161715.92 Da
Method	X-Ray Diffraction
Resolution	2.50 Å
Ligand Chemical Component	BEZ, FAD
Reference	Kawazoe T, Tsuge H, Pilone MS, Fukui K. Crystal structure of human d-amino acid oxidase: context-dependent variability of the backbone conformation of the vaagl hydrophobic stretch located at the si-face of the flavin ring. <i>Protein Sci.</i> (2006) 15 p.2708