



DAAO Protein Crystal

Catalog: CBCRY46

PRODUCT INFORMATION

Product Name	DAAO Protein Crystal
Catalog Number	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
PDBID	2DU8
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. Protein Sci. (2006) 15 p.2708
cDNA Length	1041

USAGE GUIDELINES

General Handling	Avoid excessive mixing or vortexing to prevent aggregation. Long-term storage above -80°C may result in aggregate formation. Thaw on ice before use.
Storage	Short term: +2°C to +8°C (up to 1 week) Long term: -80°C (stable for 12 months)
Stability	Stable for 12 months at -80°C. Avoid repeated freeze-thaw cycles.
Freeze / Thaw	Can be frozen, but limit to 3 freeze/thaw cycles to maintain particle integrity.

Important: This product is for **research use only**. Not intended for diagnostic or therapeutic applications. Please refer to the Safety Data Sheet (SDS) for complete handling and safety information.