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Datasheet for ABIN7318393

D Amino Acid Oxidase Protein (His tag)

Overview

Quantity:	50 µg
Target:	D Amino Acid Oxidase (DAO)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This D Amino Acid Oxidase protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human D-Amino-Acid Oxidase/DAO Protein (His Tag)
Sequence:	Met 1-Leu347
Characteristics:	Recombinant Human D-Amino-Acid Oxidase is produced by our E.coli expression system and the target gene encoding Met1-Leu347 is expressed with a 6His tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	D Amino Acid Oxidase (DAO)
Alternative Name:	D-Amino-Acid Oxidase/DAO (DAO Products)
Background:	Background: D-Amino-Acid Oxidase (DAO) belongs to the DAMOX/DASOX family. DAO is a peroxisomal enzyme which functions as a homodimer to oxidizes D-amino acids to the corresponding imino acids, producing ammonia and hydrogen peroxide. D-amino-acid oxidase

Target Details

regulates the level of the neuromodulator D-serine in the brain, has a high activity towards D-DOPA and contributes to dopamine synthesis. D-amino-acid oxidase could act as a detoxifying agent which removes D-amino acids accumulated during aging. It also acts on a variety of D-amino acids with a preference for those having small hydrophobic side chains followed by those bearing polar, aromatic, and basic groups.

Synonym: D-Amino-Acid Oxidase, DAAO, DAMOX, DAO

Molecular Weight: 41.6 kDa

UniProt: [P14920](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Frozen, Liquid

Buffer: Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, 1 mM DTT, 2 mM EDTA, pH 8.0 .

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.