

Recombinant Human D-Amino-Acid Oxidase/DAO Protein (His Tag)

Catalog No. PKSH032342

Note: Centrifuge before opening to ensure complete recovery of vial contents.

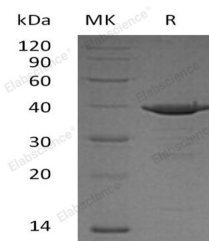
Description

Synonyms	D-Amino-Acid Oxidase;DAAO;DAMOX;DAO
Species	Human
Expression Host	E.coli
Sequence	Met 1-Leu347
Accession	P14920
Calculated Molecular Weight	41.6 kDa
Observed molecular weight	40 kDa
Tag	N-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 20% Glycerol, 1mM DTT, 2mM EDTA, pH 8.0.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

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 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

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those having small hydrophobic side chains followed by those bearing polar, aromatic, and basic groups.