

Recombinant Human DAO Protein (1-347 aa), His-tagged

Cat. No. DAO-1375H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human DAO Protein (1-347 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Metabolism. Protein Description: Full Length.
Species	Human
Source	Yeast
ProteinLength	1-347 aa
Description	Regulates the level of the neuromodulator D-serine in the brain. Has high activity towards D-DOPA and contributes to dopamine synthesis. Could act as a detoxifying agent which removes D-amino acids accumulated during aging. 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. Does not act on acidic amino acids.
Form	Tris-based buffer,50% glycerol
Molecular Mass	41.5 kDa
AA Sequence	MRVVVIGAGVIGLSTALCIHERYHSVLQPLDIKVYADRFTPLTTTDDVAAGLWQPYLSD PNNPQEADWSQQTFDYLLSHVHSPNAENLGLFLISGYNLFHEAIPDPSWKDVLGF RKLTPRELDMPDYGYGWFHTSLILEGKNYLQWLTERLTERGVKFFQRKVESFEEV AREGADVIVNCTGVWAGALQRDPLLQPGRGQIMKVDAPWMMKHFILTHDPERGIYNS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PYIIPGTQTVTLGGIFQLGNWSELNNIQDHNTIWEGCCRLEPTLKNARIIGERTGFRPV
 RPQIRLEREQLRTGPSNTEVIHNYGHGGYGLTIHWGCALEAAKLFGRILEEKLSRM
 PPSHL

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name [DAO D-amino-acid oxidase \[Homo sapiens \]](#)

Official Symbol [DAO](#)

Synonyms DAO; DAMOX; DAAO; OXDA; MGC35381;

Gene ID [1610](#)

mRNA Refseq [NM_001917](#)

Protein Refseq [NP_001908](#)

MIM [124050](#)

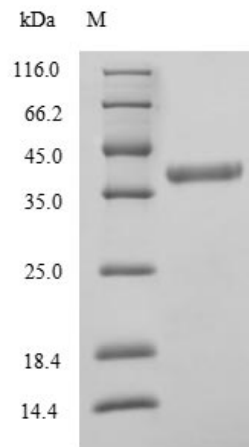
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UniProt ID

P14920



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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