

Hydroxyacid Oxidase-1/HAO-1 Active Protein | HAO-1 active protein

Recombinant Hydroxyacid Oxidase-1/HAO-1

CATALOG # AAA48314	HOST E Coli	APPLICATIONS SDS-Page
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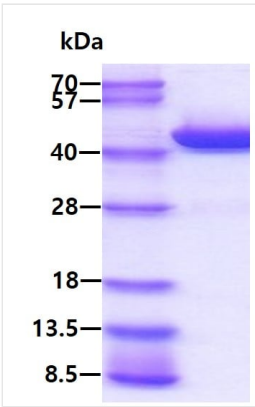
PRODUCT SYNONYMS

Hydroxyacid Oxidase-1/HAO-1; Recombinant Hydroxyacid Oxidase-1/HAO-1; (S)-2-hydroxy-acid oxidase; EC 1.1.3.15; Glycolate oxidase; GOX; GOX1MGC142227; GOXMGC142225; HAO1; HAO-1; HAOX1; hydroxyacid oxidase (glycolate oxidase) 1; hydroxyacid oxidase 1; Hydroxyacid Oxidase1; Hydroxyacid Oxidase-1; HAO-1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>90% by SDS-PAGE
Form/Format	Liquid; In Phosphate-Buffered Saline (pH 7.4) Containing 10% Glycerol.
Concentration	1mg/ml (determined by Bradford assay) (varies by lot)
Sequence Positions	1-370aa
Sequence	MGSSHHHHH SSSLVPRGSH MGSMLPRLVC ISDYEQHVRS VLQKSVYDYY RSGANDQETL ADNIQAFSRW KLYPRMLRNV ADIDLSTSVL GQRVSMPICV GATAMQCMah VDgELATVRA CQTMGTGMMML SSWATSSIEE VAEAGPEALR WMQLYIYKDR EISRQIVKRA EKQGYKAIFV TVDTPYLGNR IDDVRNRFKL PPQLRMKNFE TNDLAFSPKG NFGDNSGLAE YVAQAIDPSL SWDDITWLRR LTSPLIVVKG ILRGDDAKEA VKHGVGDGILV SNHGARQLDG VPATIDVLPE IVEAVEGKVE VFLDGGVRKG TDVLKALALG AKAVFVGRPI IWGLAFQGEK GVQDVLEILK EEFRLAMALS GCQNVKVIDK TLVRKNPLAV SKI
Sequence Length	370
Applicable Applications for HAO-1 active protein	Enzyme Activity, SDS-PAGE
Species	Mouse
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Tag	His-Tag
Biological Activity	Specific activity is > 1,000 pmol/min/ug, and defined as the amount of enzyme that oxidize glyoxylate at pH 8.0 at 25C.
Preparation and Storage	Can be stored at 2 degree C to 8 degree C for 1 week. For long term storage, aliquot and store at -20 degree C to -80 degree C. Avoid repeated freezing and thawing cycles

IMAGES



SDS-PAGE
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for HAO-1 active protein	Hydroxyacid Oxidase-1/HAO-1, also known as hydroxyacid oxidase 1, is a member of the superfamily of the alpha hydroxy acid oxidases (HAO) enzymes. It catalyzes the FMN mediated oxidation of glycolate to glyoxylate and glyoxylate to oxalate with reduction of oxygen to hydrogen peroxide. It is most highly expressed in liver and pancreas and is most active on two carbon substrates such as glycolate. Recently, it has been identified as a major contributor to hyperoxaluria, a disorder in which large deposits of calcium oxalate form kidney stones. Recombinant mouse Hydroxyacid Oxidase-1/HAO-1 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography.
Product Categories/Family for HAO-1 active protein	Signal Transduction
References	Pennati A., et al. (2009) J. Biol. Chem. 284(45):31214-22. Murray MS., et al. (2008) Biochemistry. 47(8):2439-49.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6754156
NCBI GeneID	15112
NCBI Accession #	NP_034533.1
NCBI GenBank Nucleotide #	NP_034533.1
UniProt Accession #	Q9WU19
Molecular Weight	43.4 kDa (393aa), confirmed by MALDI-TOF
NCBI Official Full Name	hydroxyacid oxidase 1
NCBI Official Synonym Full Names	hydroxyacid oxidase 1, liver
NCBI Official Symbol	Hao1
NCBI Official Synonym Symbols	GOX; Gox1; Hao-1
NCBI Protein Information	hydroxyacid oxidase 1
UniProt Protein Name	Hydroxyacid oxidase 1
UniProt Gene Name	Hao1
UniProt Synonym Gene Names	Gox1; Hao-1; HAOX1; GOX
UniProt Entry Name	HAOX1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/hydroxyacid-oxidase-1-hao-1/48314>