

Recombinant Human HAO1, TraxA/His-tagged

Cat. No. HAO1-99H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Hydroxyacid Oxidase 1/HAO1 is produced by our E. coli expression system. The target protein is expressed with sequence (Met1-Ile370) of Human HAO1 fused with a TraxA/His tag at the N-terminus.
Species	Human
Source	E.coli
Protein Length	1-370 a.a.
Description	Hydroxyacid Oxidase 1 (HAO1) is an enzyme that belongs to the FMN-Dependent α -Hydroxy Acid Dehydrogenase family. HAO1 contains 1 FMN Hydroxy Acid Dehydrogenase domain. HAO1 is expressed primarily in the liver and pancreas. This protein has 2-Hydroxyacid Oxidase activity. Most HAO1 is active on the 2-Carbon substrate Glycolate, but it can also be active on 2-Hydroxy fatty acids, with higher activity towards 2-Hydroxy Palmitate and 2-Hydroxy Octanoate.
Form	Supplied as a 0.2 μ M filtered solution of 20mM PB, 150mM NaCl, pH 7.2
AA Sequence	MSDKIIHLTDDSFDTDVLKADGAILVDFWAEWCGPCKMIAPILDEIADEYQGKLTVAK LNIDQNP GTAPKYGIRGIPTLLLFKNGEVAATKVGALSKGQLKEFLDANLAGSGSGH MHHHHHSSGLVPRG SGMKETAAKFERQHMDSPDLGTDDDDKAMADIGSMLPR LICINDYEQHAKSVLPKSIYDYRSG ANDEETLADNIAAFSRWKLYPRMLRNVAETD LSTSVLGQRVSMPICVGATAMQRMHVDGELATV RACQSLGTGMMLSSWATSSIE EVAEAGPEALRWLQLYIKDREVTKKLVRQAEKMGYKAIFVTVD TPYLGNRLLDDVR

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NRFKLPPQLRMKNFETSTLSFSPEENFGDDSGLAAYVAKAIDPSISWEDIKWL RRLT
SLPIVAKGILRGDDAREAVKHGLNGILVSNHGARQLDGVDPATIDVLPEIVEAVEGKVE
VFL DGGVRKGTDLKALALGAKAVFVGRPIVWGLAFQGEKGVQDVLEILKEEFRLA
MALSGCQNVKVI DKTLVRKNPLAVSKI

Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Store at Please minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	HAO1 hydroxyacid oxidase (glycolate oxidase) 1 [Homo sapiens]
Official Symbol	HAO1
Synonyms	HAO1; hydroxyacid oxidase (glycolate oxidase) 1; GOX1; hydroxyacid oxidase 1; GOX; glycolate oxidase; (S)-2-hydroxy-acid oxidase; HAOX1; MGC142225; MGC142227;
Gene ID	54363
mRNA Refseq	NM_017545
Protein Refseq	NP_060015
MIM	605023
UniProt ID	Q9UJM8

Chromosome Location	20p12
Pathway	Glyoxylate and dicarboxylate metabolism, organism-specific biosystem; Glyoxylate and dicarboxylate metabolism, conserved biosystem; Glyoxylate metabolism, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Peroxisome, organism-specific biosystem;
Function	(S)-2-hydroxy-acid oxidase activity; FMN binding; glycolate oxidase activity; glycolate oxidase activity; glyoxylate oxidase activity; long-chain-(S)-2-hydroxy-long-chain-acid oxidase activity; medium-chain-(S)-2-hydroxy-acid oxidase activity; oxidoreductase activity; very-long-chain-(S)-2-hydroxy-acid oxidase activity;