

Recombinant Human HAO1 Protein

Cat. No. HAO1-796H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human HAO1 protein without tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	370
Description	<p>This gene is one of three related genes that have 2-hydroxyacid oxidase activity yet differ in encoded protein amino acid sequence, tissue expression and substrate preference. Subcellular location of the encoded protein is the peroxisome.</p> <p>Specifically, this gene is expressed primarily in liver and pancreas and the encoded protein is most active on glycolate, a two-carbon substrate. The protein is also active on 2-hydroxy fatty acids. The transcript detected at high levels in pancreas may represent an alternatively spliced form or the use of a multiple near-consensus upstream polyadenylation site.</p>
Form	Lyophilized
Molecular Mass	41.7 kDa
AA Sequence	<p>MLPRLICINDYEQHAKSIVLPKSIYDYRSGANDEETLADNIAAFSRWKLYPRMLRNVA ETDLSTSVLGQRVSMPICVGATAMQRMAHVDGELATVRACQSLGTGMMLSSWATS SIEEVAEAGPEALRWLQLYIKDREVTKKLVQRQAEKMGYKAIFVTVDTPYLGNRLLDD VRNRFKLPQLRMKNFETSTLSFSPEENFGDDSGLAAYVAKAIDPSISWEDIKWLR</p>

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LTSLPIVAKGILRGDDAREAVKHGLNGILVSNHGARQLDGVDPATIDVLPEIVEAVEGKV
 EVFLDGGVRKGTDLKALALGAKAVFVGRPIVWGLAFQGEKGVQDVLEILKEEFRLA
 MALSGCQNVKVIDKTLVRKNPLAVSKI

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

Storage At -20 centigrade.

Concentration 1 mg/mL

Storage Buffer PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

Reconstitution Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name HAO1 hydroxyacid oxidase (glycolate oxidase) 1 [Homo sapiens (human)]

Official Symbol HAO1

Synonyms HAO1; hydroxyacid oxidase (glycolate oxidase) 1; GOX1; hydroxyacid oxidase 1; GOX; glycolate oxidase; (S)-2-hydroxy-acid oxidase; HAOX1; MGC142225;

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	MGC142227;
Gene ID	54363
mRNA Refseq	NM_017545
Protein Refseq	NP_060015
MIM	605023
UniProt ID	Q9UJM8

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