

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	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. 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.
Form	Lyophilized
Molecular Mass	41.7 kDa
AA Sequence	MLPRLICINDYEQHAKSVLPKSIYDYRSGANDEETLADNIAAFSRWKLYPRMLRNVA ETDLSTSVLGQRVSMPICVGATAMQRMHVHDGELATVRACQSLGTGMMLSSWATS SIEEVAEAGPEALRWLQLYIKDREVTKKLVQRQAEKMGYKAIFVTVDTPYLGNRLLDD VRNRFKLPPQLRMKNFETSTLSFSPEENFGDDSGLAAYVAKAIDPSISWEDIKWLR

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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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