

Recombinant Full Length Human HAO1 Protein, GST-tagged

Cat. No. HAO1-3351HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HAO1 full-length ORF (NP_060015.1, 1 a.a. - 370 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	370 amino acids
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. [provided by RefSeq]
Molecular Mass	67.3 kDa
AA Sequence	MLPRLICINDYEQHAKSVLPKSIYDYRSGANDEETLADNIAAFSRWKLYPRMLRNVA ETDLSTSVLGQVRVSMPICVGATAMQRMHVVDGELATVRACQSLGTGMMLSSWATS SIEEVAEAGPEALRWLQLYIYKDREVTKKLVQRQAEKMGYKAIFVTVDTPYLGNRLLDD VRNRFKLPPQLRMKNFETSTLSFSPEENFGDDSGLAAYVAKAIDPSISWEDIKWLRRL LTSLPIVAKGILRGDDAREAVKHGLNGILVSNHGARQLDGVDPATIDVLPEIVEAVEGKV

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	EVFLDGGVRKGTDLKALALGAKAVFVGRPIVWGLAFQGEKGVQDVLEILKEEFRLA MALSGCQNVKVIDKTLVRKNPLAVSKI
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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

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UniProt ID

Q9UJM8

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