

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	<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. [provided by RefSeq]</p>
Molecular Mass	67.3 kDa
AA Sequence	<p>MLPRLICINDYEQHAKSVLPKSIYDYRSGANDEETLADNIAAFSRWKLYPRMLRNVA ETDLSTSVLGQRVSMPICVGATAMQRMAHVDGELATVRACQSLGTGMMLSSWATS SIEEVAEAGPEALRWLQLYIKDREVTKKLVRQAEKMGYKAIFVTVDTPYLGNRLLDD VRNRFKLPPQLRMKNFETSTLSFSPEENFGDDSGLAAYVAKAIDPISISWEDIKWLRR LTSLPIVAKGILRGDDAREAVKHGLNGILVSNHGARQLDGVDPATIDVLPEIVEAVEGKV</p>

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EVFLDGGVRKGTDLKALALGAKAVFVGRPIVWGLAFQGEKGVQDVLLEILKEEFRLA
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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