

Recombinant Full Length Human HAO1 Protein, C-Flag-tagged

Cat. No. HAO1-1303HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human HAO1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	40.7 kDa
AA Sequence	MLPRLICINDYEQHAKSVLPKSIYDYRSGANDEETLADNIAAFSRWKLYPRMLRNVA ETDLSTSVLGQR VSMPICVGATAMQRMHVVDGELATVRACQSLGTGMMLSSWAT SSIEEVAEAGPEALRWLQLYIYKDREVT KKLVRQAEKMGYKAIFVTVDTPYLGNRDL DVRNRFKLPPQLRMKNFETSTLSFSPEENFGDDSGLAAYVA KAI DPSISWEDIKWLR RLTS LPIVAKGILRGDDAREAVKHGLNGILVSNHGARQLDGPATIDVLPEIVE AVEG

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	KVEVFLDGGVRKGTDLKALALGAKAVFVGRPIVWGLAFQGEKGVQDVLEILKEEFR LAMALSGCQ NVKVIDKTLVRKNPLAVSKITRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Glyoxylate and dicarboxylate metabolism, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

Gene Name	HAO1 hydroxyacid oxidase 1 [Homo sapiens (human)]
Official Symbol	HAO1
Synonyms	GO; GOX; GOX1; HAOX1
Gene ID	54363
mRNA Refseq	NM_017545.3

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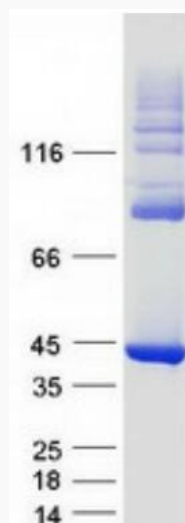
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Protein Refseq NP_060015.1

MIM 605023

UniProt ID Q9UJM8



Coomassie blue staining of purified HAO1 protein.

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