

Recombinant Human HAO1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HAO1-3820H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HAO1 MS Standard C13 and N15-labeled recombinant protein (NP_060015) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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>
Molecular Mass	40.9 kDa
AA Sequence	<p>MLPRLICINDYEQHAKSVLPKSIYDYRSGANDEETLADNIAAFSRWKLYPRMLRNVA ETDLSTSVLGQRVSMPICVGATAMQRMAHVDGELATVRACQSLGTGMMLSSWATS SIEEVAEAGPEALRWLQLYIYKDREVTKKLVRQAEKMGYKAIFVTVDTPYLGNRLLDD VRNRFKLPQLRMKNFETSTLSFSPEENFGDDSGLAAYVAKAIDPSISWEDIKWLR LTSLPIVAKGILRGDDAREAVKHGLNGILVSNHGARQLDGV PATIDVLPEIVEAVEGKV</p>

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EVFLDGGVRKGTDLKALALGAKAVFVGRPIVWGLAFQGEKGVQDVLKKEEFRLA
MALSGCQNVKVIDKTLVRKNPLAVSKITRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name HAO1 hydroxyacid 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; MGC142227;

Gene ID 54363

mRNA Refseq NM_017545

Protein Refseq NP_060015

MIM 605023

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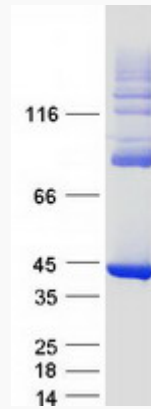
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UniProt ID

Q9UJM8

SDS-PAGE



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