

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	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.
Molecular Mass	40.9 kDa
AA Sequence	MLPRLICINDYEQHAKSVLPKSIYDYRSGANDEETLADNIAAFSRWKLYPRMLRNVA ETDLSTSVLGQRVSMPICVGATAMQRMHVGDGELATVRACQSLGTGMMLSSWATS SIEEVAEAGPEALRWLQLYIYKDREVTKKLVRQAEKMGYKAIFVTVDTPYLGNRLLDD VRNRFKLPPQLRMKNFETSTLSFSPEENFGDDSGLAAYVAKAIDPSISWEDIKWLRRL LTSLPIVAKGILRGDDAREAVKHGLNGILVSNHGARQLDGVDPATIDVLPEIVEAVEGKV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	EVFLDGGVRKGTDLKALALGAKAVFVGRPIVWGLAFQGEKGVQDVLEILKEEFRLA 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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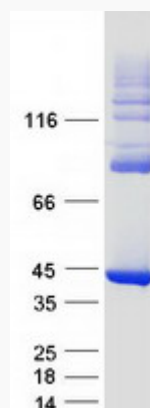
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UniProt ID

Q9UJM8

SDS-PAGE

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