

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

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human HAO1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | <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> |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | 40.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MLPRLICINDYEQHAKSVLPKSIYDYRSGANDEETLADNIAAFSRWKLYPRMLRNVA<br>ETDLSTSVLGQR VSMPICVGATAMQRMHVVDGELATVRACQSLGTGMMLSSWAT<br>SSIEEVAEAGPEALRWLQLYIYKDREVT KKLVRQAEKMGYKAIFVTVDTPYLGNRD<br>DVRNRFKLPPQLRMKNFETSTLSFSPEENFGDDSGLAAYVA K AIDPSISWEDIKWLR<br>RLTSLPIVAKGILRGDDAREAVKHGLNGILVSNHGARQLDGPATIDVLPEIVE AVEG                                                                                                                                                                                                                                                                                                                            |

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

## GENE INFORMATION

|                        |                                                                     |
|------------------------|---------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">HAO1 hydroxyacid oxidase 1 [ Homo sapiens (human) ]</a> |
| <b>Official Symbol</b> | <a href="#">HAO1</a>                                                |
| <b>Synonyms</b>        | GO; GOX; GOX1; HAOX1                                                |
| <b>Gene ID</b>         | <a href="#">54363</a>                                               |
| <b>mRNA Refseq</b>     | <a href="#">NM_017545.3</a>                                         |

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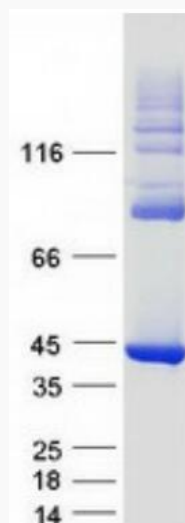
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**Protein Refseq** NP\_060015.1

**MIM** 605023

**UniProt ID** Q9UJM8



Coomassie blue staining of purified HAO1 protein.

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