

Bioactive

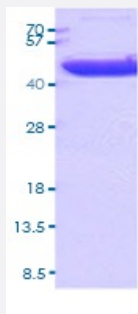
Full-Length

HAO1 (Human) Recombinant Protein

Catalog # P6832

Size 20 ug

Applications



15% SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Specification

Product Description	Human Hydroxyacid Oxidase-1/HAO-1 protein (NP_060015, 1 a.a.-370 a.a.) full length recombinant protein with His tag expressed in <i>Escherichia coli</i> .
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	45
Form	Liquid
Preparation Method	<i>Escherichia coli</i> expression system
Purity	> 95% by SDS-PAGE
Endotoxin Level	< 1 EU/ug
Activity	Specific activity is > 3,000 pmol/min/ug, and defined as the amount of enzyme that oxidize glyoxylate at pH 8.0 at 25°C.
Quality Control Testing	15% SDS-PAGE under reducing condition and visualized by coomassie blue stain. 15% SDS-PAGE under reducing condition and visualized by coomassie blue stain.
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.

Storage Buffer	In 20 mM Tris-HCl, 0.5M NaCl, pH 8.0 (20% glycerol)
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Storage Instruction	Store at -20°C. For long term storage store at -80°C. Aliquot to avoid repeated freezing and thawing.
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Applications

- SDS-PAGE

Gene Info — HAO1

Entrez GeneID	54363
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Protein Accession#	Q9UJM8
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Gene Name	HAO1
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Gene Alias	GOX, GOX1, HAOX1, MGC142225, MGC142227
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Gene Description	hydroxyacid oxidase (glycolate oxidase) 1
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Omim ID	605023
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Gene Ontology	Hyperlink
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Gene Summary	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. [provided by RefSeq]
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Other Designations	(S)-2-hydroxy-acid oxidase OTTHUMP00000030231 glycolate oxidase hydroxyacid oxidase 1
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Pathway

- [Glyoxylate and dicarboxylate metabolism](#)
- [Metabolic pathways](#)