

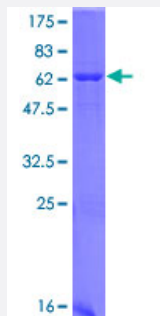
Full-Length

# HAO1 (Human) Recombinant Protein (P01)

Catalog # H00054363-P01

Size 25 ug, 10 ug

## Applications



## Specification

### Product Description

Human HAO1 full-length ORF ( NP\_060015.1, 1 a.a. - 370 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MLPRLICINDYEQHAKSVLPKSIYDYRSGANDEETLADNIAAFSRWKLYPRMLRNVAETDLSTSVL  
GQRVSMPICVGATAMQRMHVHDGELATVRACQSLGTGMMLSSWATSSIEEVAEAGPEALRWLQ  
LYYKDREVTKKLVRQAEKMGYKAIFVTVDTPYLGNRLLDDVRNRFKLPPQLRMKNFETSTLSFSPE  
ENFGDDSGLAAYVAKAIDPSISWEDIKWLRLTSLPIVAKGILRGDDAREAVKHGLNGILVSNHGAR  
QLDGVPATIDVLPMEAVEGKVEVFLDGGVRKGTDLKALALGAKAVFVGRPIWGLAFQGEKG  
VQDVLEILKEEFRLAMALSGCQNVKVIDKTLVRKNPLAVSKI

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

67.3

### Interspecies Antigen Sequence

Mouse (89); Rat (89)

### Preparation Method

[in vitro wheat germ expression system](#)

### Purification

Glutathione Sepharose 4 Fast Flow

### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

### Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction**

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Note**

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — HAO1

**Entrez GeneID**[54363](#)**GeneBank Accession#**[NM\\_017545.2](#)**Protein Accession#**[NP\\_060015.1](#)**Gene Name**

HAO1

**Gene Alias**

GOX, GOX1, HAOX1, MGC142225, MGC142227

**Gene Description**

hydroxyacid oxidase (glycolate oxidase) 1

**Omim ID**[605023](#)**Gene Ontology**[Hyperlink](#)**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]

**Other Designations**

(S)-2-hydroxy-acid oxidase|OTTHUMP00000030231|glycolate oxidase|hydroxyacid oxidase 1

## Pathway

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