

Recombinant Human HAO1 protein, His-tagged

Cat. No. HAO1-378H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HAO1 protein (Leu2-Ile370), fused to His tag at N-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	369
Description	Hydroxyacid oxidase 1 (HAO-1), a member of the FMN-dependent alpha-hydroxy acid dehydrogenase family, is also known as glycolate oxidase (GOX), which contains 1 FMN hydroxy acid dehydrogenase domain. HAO-1 Has 2-hydroxyacid oxidase activity. Most active on the 2-carbon substrate glycolate, but is also active on 2-hydroxy fatty acids, with high activity towards 2-hydroxy palmitate and 2-hydroxy octanoate.
Form	Lyophilized from 0.22 um filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 41.7 kDa. The protein migrates as 41.7 kDa under reducing (R) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.

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Storage

For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- 20 centigrade to -70 centigrade for 12 months in lyophilized state;
- 70 centigrade for 3 months under sterile conditions after reconstitution.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name [HAO1](#)

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](#)

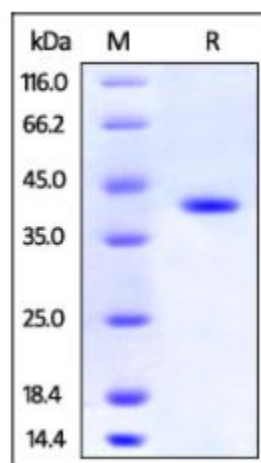
UniProt ID [Q9UJM8](#)

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SDS-PAGE of HAO1-378H



Human HAO-1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.