

Recombinant Human HAO1 293 Cell Lysate

Cat. No. HAO1-5638HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for hydroxyacid oxidase (glycolate oxidase) 1 (HAO1) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	HAO1 hydroxyacid oxidase (glycolate oxidase) 1 [Homo sapiens]
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
Chromosome Location	20p12
Pathway	Glyoxylate and dicarboxylate metabolism, organism-specific biosystem; Glyoxylate and dicarboxylate metabolism, conserved biosystem; Glyoxylate metabolism, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives,

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organism-specific biosystem; Peroxisome, organism-specific biosystem;

Function

(S)-2-hydroxy-acid oxidase activity; FMN binding; glycolate oxidase activity; glycolate oxidase activity; glyoxylate oxidase activity; long-chain-(S)-2-hydroxy-long-chain-acid oxidase activity; medium-chain-(S)-2-hydroxy-acid oxidase activity; oxidoreductase activity; very-long-chain-(S)-2-hydroxy-acid oxidase activity;

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