

Datasheet for ABIN7548200
HAO1 Protein (AA 1-370) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	HAO1
Protein Characteristics:	AA 1-370
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HAO1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant HAO1 Protein expressed in mammalian cells.
Sequence:	MLPRLICIND YEQHAKSVLP KSIYDYRSG ANDEETLADN IAAFSRWKLY PRMLRNVAET DLSTSVLGQR VSMPICVGAT AMQRMAHVDG ELATVRACQS LGTGMMMLSSW ATSSIEEVAE AGPEALRWLQ LYIYKDREVT KKLVRQAEKM GYKAIFVTVD TPYLGNRLDD VRNRFKLPPQ LRMKNFETST LSFSPENFG DDSGLAAYVA KAI DPSISWE DIKWLRRLTS LPIVAKGILR GDDAREAVKH GLNGILVSNH GARQLDGVPA TIDVLPEIVE AVEGKVEVFL DGGVRKGTDV LKALALGAKA VFGVRPIVWG LAFQGEKGVQ DVLEILKEEF RLAMALSGCQ NVKVIDKTLV RKNPLAVSKI Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	HAO1
Alternative Name:	HAO1 (HAO1 Products)
Background:	<p>2-Hydroxyacid oxidase 1 (HAOX1) (EC 1.1.3.15) (Glycolate oxidase) (GO) (GOX) (Glyoxylate oxidase) (EC 1.2.3.5),FUNCTION: Broad substrate specificity (S)-2-hydroxy-acid oxidase that preferentially oxidizes glycolate (PubMed:10777549, PubMed:17669354, PubMed:18215067, PubMed:10978532). The glyoxylate produced by the oxidation of glycolate can then be utilized by alanine-glyoxylate aminotransferase for the peroxisomal synthesis of glycine, this pathway appears to be an important step for the detoxification of glyoxylate which, if allowed to accumulate, may be metabolized to oxalate with formation of kidney stones (PubMed:10978532, PubMed:17669354). Can also catalyze the oxidation of glyoxylate, and long chain hydroxyacids such as 2-hydroxyhexadecanoate and 2-hydroxyoctanoate, albeit with much lower catalytic efficiency (PubMed:10777549, PubMed:17669354, PubMed:18215067). Active in vitro with the artificial electron acceptor 2,6-dichlorophenolindophenol (DCIP), but O₂ is believed to be the physiological electron acceptor, leading to the production of H₂O₂ (PubMed:10777549, PubMed:17669354, PubMed:18215067, PubMed:10978532). Is not active on L-lactate and 2-hydroxybutanoate (PubMed:10777549). {ECO:0000269 PubMed:10777549,</p>

Target Details

ECO:0000269|PubMed:10978532, ECO:0000269|PubMed:17669354,
ECO:0000269|PubMed:18215067, ECO:0000303|PubMed:10978532,
ECO:0000303|PubMed:17669354}.

Molecular Weight: 40.9 kDa

UniProt: [Q9UJM8](#)

Pathways: [Monocarboxylic Acid Catabolic Process](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months