

HAO1 recombinant protein

HAO1, 1-370aa, Human, His tag, E Coli

CATALOG # AAA48702	HOST E Coli	APPLICATIONS SDS-Page
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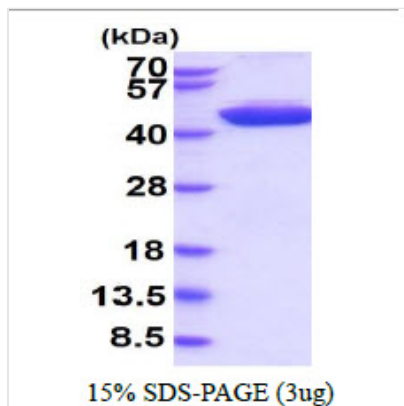
PRODUCT SYNONYMS

HAO1; 1-370aa; Human; His tag; E Coli; Hydroxyacid oxidase 1; GOX (glycolate oxidase); GOX1; HAOX1; HAO1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. 20mM Tris-HCl Buffer (pH 8.0) containing 20% glycerol, 0.5M NaCl
Concentration	1.0 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMLPR LICINDYEQH AKSVLPKSIY DYYRSGANDE ETLADNIAAF SRWKLYPRML RNVAETDLST SVLGQRVSMP ICVGATAMQR MAHVDGELAT VRACQSLGTG MMLSSWATSS IEEVAEAGPE ALRWLQLYIY KDREVTKKLV RQAEKMGYKA IFVTVDTPYL GNRLDDVRNR FKLPPQLRMK NFETSTLSFS PEENFGDDSG LAAYVAKAID PSISWEDIKW LRRLTSLPIV AKGILRGDDA REAVKHGLNG ILVSNHGARQ LDGVPATIDV LPEIVEAVEG KVEVFLDGGV RKGTDVLKAL ALGAKAVFVG RPIVWGLAFQ GEKGVQDVLE ILKEEFRLAM ALSGCQNVKV IDKTLVRKNP LAVSKI
Sequence Length	370
Applicable Applications for HAO1 recombinant protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for HAO1 recombinant protein	HAO1, also known as glycolate oxidase, is a member of the superfamily of the alpha hydroxy acid oxidases (HAO) enzymes. It catalyzes the FMN mediated oxidation of glycolate to glyoxylate and glyoxylate to oxalate with reduction of oxygen to hydrogen peroxide. It is most highly expressed in liver and pancreas and is most active on twocarbon substrates such as glycolate. Recently, it has been identified as a major contributor to hyperoxaluria, a disorder in which large deposits of calcium oxalate form kidney stones. Recombinant human HAO1 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography.
Product Categories/Family for HAO1 recombinant protein	Metabolism
References	Pennati A. and G. Gadda. (2009) J. Biol. Chem. 284:31214; Murray M.S. et al. (2008) Biochemistry, 47:2439

NCBI AND UNIPROT INFORMATION

NCBI GI #	11068137
NCBI GeneID	54363
NCBI Accession #	NP_060015
NCBI GenBank Nucleotide #	NM_017545.2
UniProt Accession #	Q9UJM8; Q14CQ0; Q9UPZ0; Q9Y3I7
Molecular Weight	45.0 kDa (406aa), confirmed by MALDI-TOF
NCBI Official Full Name	hydroxyacid oxidase 1
NCBI Official Synonym Full Names	hydroxyacid oxidase 1
NCBI Official Symbol	HAO1
NCBI Official Synonym Symbols	GOX; GOX1; HAOX1
NCBI Protein Information	hydroxyacid oxidase 1
UniProt Protein Name	Hydroxyacid oxidase 1
UniProt Gene Name	HAO1
UniProt Synonym Gene Names	GOX1; HAOX1; HAOX1; GOX

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.