Datasheet for ABIN7596247

HAO1 Protein (AA 1-370) (His tag)

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Overview

Quantity:	500 µg
Target:	HAO1
Protein Characteristics:	AA 1-370
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This HAO1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	MLPRLVC ISDYEQHVRS VLQKSVYDYY RSGANDQETL ADNIQAFSRW KLYPRMLRNV ADIDLSTSVL GQRVSMPICV GATAMQCMAH VDGELATVRA CQTMGTGMML SSWATSSIEE VAEAGPEALR WMQLYIYKDR EISRQIVKRA EKQGYKAIFV TVDTPYLGNR IDDVRNRFKL PPQLRMKNFE TNDLAFSPKG NFGDNSGLAE YVAQAIDPSL SWDDITWLRR LTSLPIVVKG ILRGDDAKEA VKHGVDGILV SNHGARQLDG VPATIDVLPE IVEAVEGKVE VFLDGGVRKG TDVLKALALG AKAVFVGRPI IWGLAFQGEK GVQDVLEILK EEFRLAMALS GCQNVKVIDK TLVRKNPLAV SKI
Purity:	> 90% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Specific activity is > 1,000pmol/min/ug, and defined as the amount of enzyme that oxidize

Product Details

	glyoxylate at pH 8.0 at 25C

Target Details

Target:	HAO1
Alternative Name:	Hydroxyacid Oxidase-1/HAO-1 (HAO1 Products)
Background:	Hydroxyacid Oxidase-1/HAO-1, also known as hydroxyacid oxidase 1, 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 two carbon 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 mouse Hydroxyacid Oxidase-1/HAO-1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Molecular Weight:	43.4 kDa (393aa) confirmed by MALDI-TOF
NCBI Accession:	NP_034533
Pathways:	Monocarboxylic Acid Catabolic Process

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.