Datasheet for ABIN7274828

Hemopexin Protein (HPX) (AA 24-460) (His tag)

2 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	Hemopexin (HPX)
Protein Characteristics:	AA 24-460
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Hemopexin protein is labelled with His tag.

Product Details

Purpose:	Mouse HPX Protein
Sequence:	Ser24-Gln460
Characteristics:	Recombinant Mouse HPX Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Ser24-Gln460.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

Target:	Hemopexin (HPX)
Alternative Name:	HPX (HPX Products)

Target Details

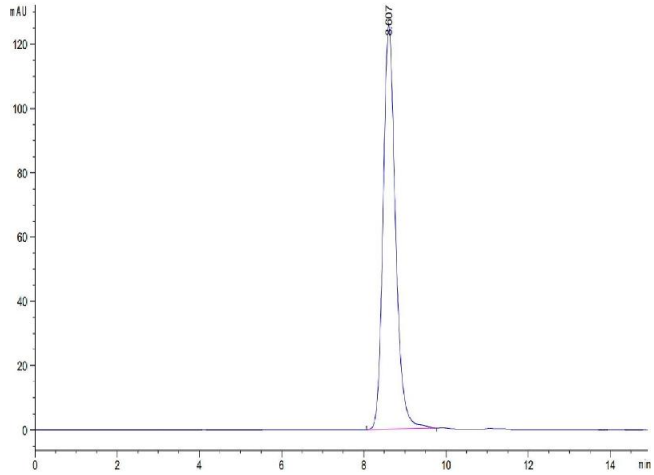
Background:	Hemopexin (HPX) serves as scavenger and transporter of toxic plasma heme to the liver. HPX is formed by two four-bladed beta-propeller domains, resembling two thick disks that lock together at a 90 degrees angle. The heme is bound between the two beta-propeller domains in a pocket formed by the interdomain linker peptide.HPX, acting not only as a heme carrier but also displaying transient heme-based ligand binding and (pseudo-)enzymatic properties, could be considered a 'chronosteric' heme-protein.
Molecular Weight:	50 kDa. Due to glycosylation, the protein migrates to 65-70 kDa based on Tris-Bis PAGE result.
UniProt:	Q91X72
Pathways:	Transition Metal Ion Homeostasis, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response

Application Details

Restrictions:	For Research Use only

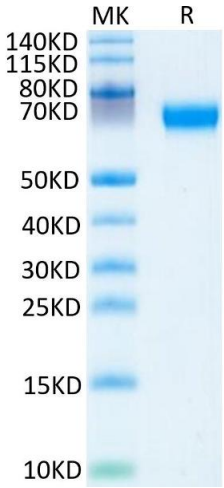
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in 50 mM MES, 150 mM NaCl (pH 6.0).
Buffer:	Lyophilized from 0.22µm filtered solution in 50 mM MES, 150 mM NaCl (pH 6.0). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1. The purity of Mouse HPX is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 2. Mouse HPX on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .