Human HPX Protein

Cat. No. HPX-HM101

Description

Source	Recombinant Human HPX Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Thr24-His462.
Accession	P02790
Molecular Weight	The protein has a predicted MW of 50.3 kDa. Due to glycosylation, the protein migrates to 68-75 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

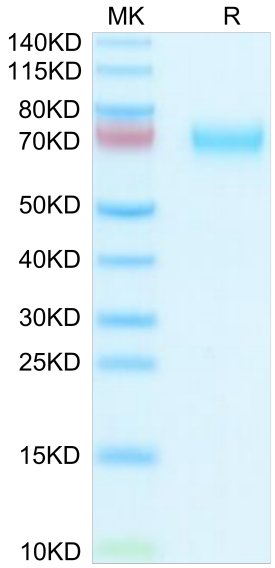
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

Assay Data

Bis-Tris PAGE



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

SEC-HPLC

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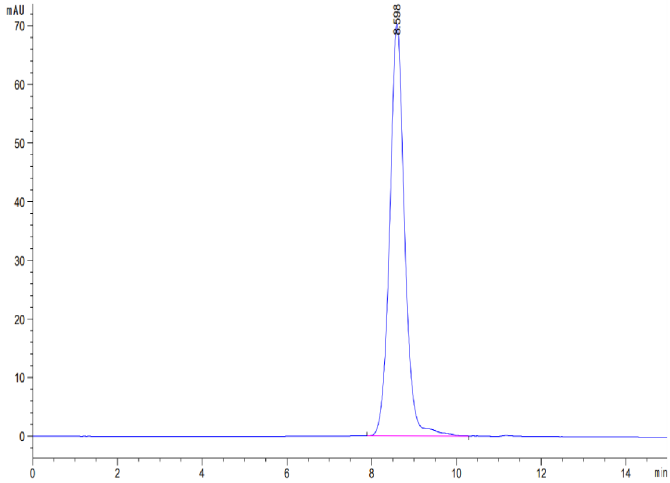
Assay Data



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

Bioactivity Data

Measured by its ability to bind protoporphyrin IX (PPPIX). Recombinant human Hemopexin binds > 10 μM PPPIX, resulting in a 50% decrease in the fluorescence signal of human Hemopexin.