

Mouse HPX Protein

Cat. No. HPX-MM101

Description

Source	Recombinant Mouse HPX Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ser24-Gln460.
Accession	Q91X72
Molecular Weight	The protein has a predicted MW of 50 kDa. Due to glycosylation, the protein migrates to 65-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Supplied as 0.22 μm filtered solution in 50mM MES, 150mM NaCl (pH 6.0).
Storage	Valid for 12 months from date of receipt when stored at -80°C. 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.

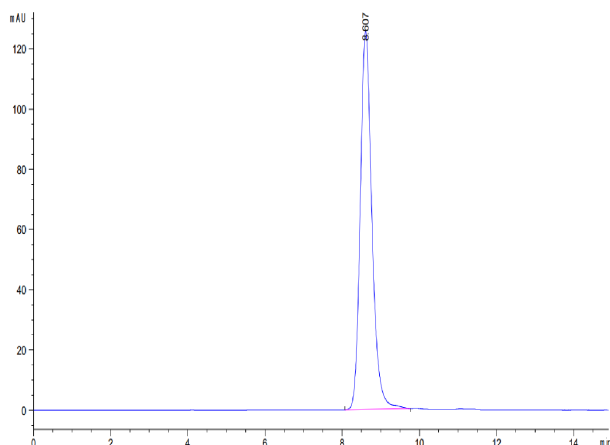
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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

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Assay Data

Bioactivity Data

Measured by its ability to bind protoporphyrin IX (PPPIX). Recombinant Mouse Hemopexin binds > 15 μ M PPIX, resulting in a 50% decrease in the fluorescence signal of Mouse Hemopexin.