

Cynomolgus HPX Protein

Cat. No. HPX-CM101



Description

Source	Recombinant Cynomolgus HPX Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Asn24-Tyr462.
Accession	A0A2K5WVL1
Molecular Weight	The protein has a predicted MW of 50.30 kDa. Due to glycosylation, the protein migrates to 60-80 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

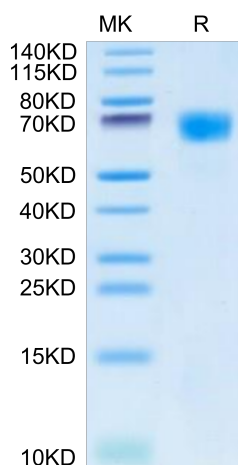
Formulation	Supplied as 0.22µm filtered solution in 20mM MES, 150mM NaCl (pH 6.0).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

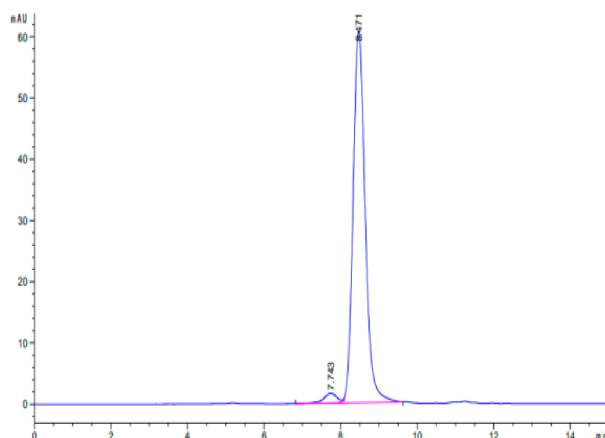
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



The purity of Cynomolgus 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 Cynomolgus Hemopexin binds $> 10 \mu\text{M}$ PPIX, resulting in a 50% decrease in the fluorescence signal of Cynomolgus Hemopexin.