

Recombinant Mouse Hemopexin/HPX Protein (His Tag)

Catalog Number:PKSM040767



Note: Centrifuge before opening to ensure complete recovery of vial contents.

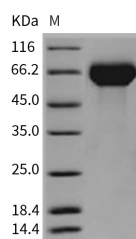
Description

Synonyms	Hemopexin;Hpx;Hpxn
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Met 1-Gln 460
Accession	NP_059067.2
Calculated Molecular Weight	50.4 kDa
Observed molecular weight	60-70 kDa
Tag	C-His
Bioactivity	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.

Properties

Purity	> 98 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 20mM MES, 150mM NaCl, pH 6.0 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

Hemopexin (HPX) is plasma glycoprotein belongs to the family of the acute-phase proteins whose synthesis is induced after an inflammatory event. Hemopexin with two four-bladed beta -propeller folds has been found in other proteins including collagenases and provides sites for protein-protein interactions. The liver is the major synthesizing organ. Hemopexin participates in maintaining and recycling the iron pool by utilizing its high binding affinity toward heme composed of protoporphyrin IX and iron. It also functions in preventing oxidation caused by heme after hemolysis.

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Hydrophobic heme molecules can intercalate into lipid membranes and participate in the oxidation of lipid membrane components through the Fenton reaction resulting in lipid peroxidation. Hemopexin undergoes a conformational change upon the binding of heme. The conformational change allows hemopexin to interact with a specific receptor, forming a complex which is then internalized. Heme concentrations in plasma increase after hemolysis, which is associated with several pathological conditions such as reperfusion injury and ischemia.

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