

Mouse Heparin/HAMP Protein

Cat. No. HEP-ME601

Description

Source	Recombinant Mouse Heparin/HAMP Protein is expressed from E.coli with GST tag at the N-Terminus. It contains Asp59-Thr83.
Accession	Q9EQ21
Molecular Weight	The protein has a predicted MW of 29.05 kDa same as Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

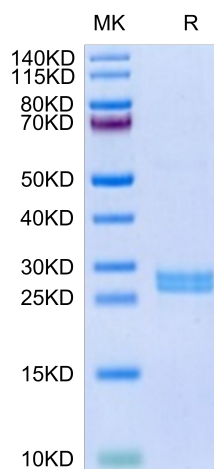
Formulation	Lyophilized from 0.22µm filtered solution in 50mM Tris-HCl, 150mM NaCl, 2mM DTT (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state 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.

Background

Heparin, the main regulator of iron metabolism, is synthesized and released by hepatocytes in response to increased body iron concentration and inflammation. Deregulation of heparin expression is a common feature of genetic and acquired iron disorders: in Hereditary Hemochromatosis (HH) and iron-loading anemias low heparin causes iron overload, while in Iron Refractory Iron Deficiency Anemia (IRIDA) and anemia of inflammation (AI), high heparin levels induce iron-restricted erythropoiesis.

Assay Data

Tris-Bis PAGE



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