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Recombinant Mouse Hepcidin/HAMP Protein

Catalog No.: RP02870 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	84506	Q9EQ21

Tags
N-GST

Synonyms
Hamp1; Hepc; Hepc1; HFE2B; LEAP1; LEAP-1; PLTR

Product Information

Source	Purification
E. coli	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
29.05 kDa	29 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of 50 mM Tris-HCl, 150 mM NaCl, 2 mM DTT, pH 7.5.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

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

Basic Information

Description
Recombinant Mouse Hepcidin/HAMP Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Asp59-Thr83) of mouse Hepcidin/HAMP (Accession #NP_115930.1) fused with GST tag at the N-terminus.

Bio-Activity

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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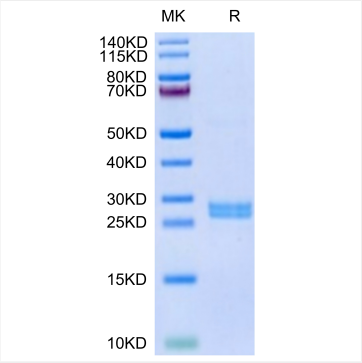
Validation Data



Recombinant Mouse Hepcidin/HAMP Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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