

Recombinant Mouse Hepcidin/HAMP Protein

Catalog No.: RP02870

Sequence Information

Species **Gene ID**
Mouse 84506

Swiss Prot **Tags**
Q9EQ21 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 stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

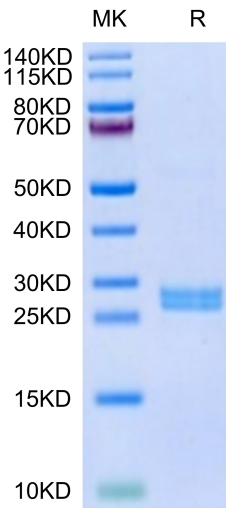
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Validation Data



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