

Hepcidin/HAMP Protein, Mouse (GST)

Cat. No.:	HY-P700634
Synonyms:	rHuHepcidin/HAMP, GST; Liver-expressed antimicrobial peptide 1; Putative liver tumor regressor; HEPC; LEAP1
Species:	Mouse
Source:	E. coli
Accession:	Q9EQ21 (D59-T83)
Gene ID:	84506
Molecular Weight:	29.4 kDa

PROPERTIES

AA Sequence	D T N F P I C I F C C K C C N N S Q C G I C C K T
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Hepcidin, a liver-produced hormone, stands as the principal circulating regulator governing the absorption and distribution of iron throughout the body. Its regulatory mechanism involves the promotion of endocytosis and degradation of SLC40A1, resulting in the retention of iron within iron-exporting cells and a consequential reduction in iron flow into the plasma. Hepcidin orchestrates vital iron fluxes, including the absorption of dietary iron in the intestine, the recycling of iron by macrophages through phagocytosis of aging erythrocytes and other cells, and the mobilization of stored iron from hepatocytes. Its interaction with SLC40A1 triggers rapid ubiquitination of the latter, underscoring hepcidin's pivotal role in maintaining iron homeostasis.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA