



Recombinant Protein Technical Manual  
Recombinant Human Hepcidin/HAMP Protein (GST  
Tag)  
RPES0682

### Product Data:

**Product SKU:** RPES0682

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P81172

### Protein Information:

**Molecular Mass:** 29.2 kDa

**AP Molecular Mass:** 28-30 kDa

**Tag:** N-GST

**Bio-activity:**

**Purity:** > 85 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of PBS, 50% glycerol, pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Liver-expressed antimicrobial peptide 1; Putative liver tumor regressor; HEPC; LEAP1

## Immunogen Information:

**Sequence:** Asp60-Thr84

## Background:

Hepcidin (HAMP) is a secreted protein that belongs to the hepcidin family. It is expressed in liver, heart and brain. It is involved in the maintenance of iron homeostasis, and it is necessary for the regulation of iron storage in macrophages, and for intestinal iron absorption. The preproprotein is post-translationally cleaved into mature peptides of 20, 22 and 25 amino acids, and these active peptides are rich in cysteines, which form intramolecular bonds that stabilize their beta sheet structures.