

## Product datasheet for PH304620

### HEPC (HAMP) (NM\_021175) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	HAMP MS Standard C13 and N15-labeled recombinant protein (NP_066998)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204620
Predicted MW:	9.4 kDa
Protein Sequence:	>RC204620 protein sequence Red=Cloning site Green=Tags(s)  MALSSQIWAACL LLLLLLLASLTSGSVFPQQTGQLAELQPQDRAGARASWMPMFQRRRRRDTHFPICIFCC GCCHRSKCGMCKKT  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_066998</a>
RefSeq Size:	430
RefSeq ORF:	252
Synonyms:	HEPC; HFE2B; LEAP1; PLTR
Locus ID:	57817
UniProt ID:	<a href="#">P81172</a>
Cytogenetics:	19q13.12



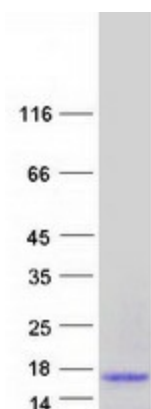
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**Summary:**

The product encoded by this gene 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. These peptides exhibit antimicrobial activity against bacteria and fungi. Mutations in this gene cause hemochromatosis type 2B, also known as juvenile hemochromatosis, a disease caused by severe iron overload that results in cardiomyopathy, cirrhosis, and endocrine failure. [provided by RefSeq, Oct 2014]

**Protein Families:**

Secreted Protein, Transmembrane

**Product images:**

Coomassie blue staining of purified HAMP protein (Cat# [TP304620]). The protein was produced from HEK293T cells transfected with HAMP cDNA clone (Cat# [RC204620]) using MegaTran 2.0 (Cat# [TT210002]).