

Recombinant Human HEPH Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HEPH-3336H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HEPH MS Standard C13 and N15-labeled recombinant protein (NP_620074) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the multicopper oxidase protein family. The encoded protein is involved in the transport of dietary iron from epithelial cells of the intestinal lumen into the circulatory system, and may be involved in copper transport and homeostasis. In mouse, defects in this gene can lead to severe microcytic anemia. Alternative splicing results in multiple transcript variants.
Molecular Mass	136.5 kDa
AA Sequence	MESGHLLWALLFMQSLWPQLTDGATRVYYLGIRDVQWNYAPKGRNVITNQPLDSDI VASSFLKSDKNRIGGTYKKTIYKEYKDDSYTDEVAQPAWLGLGPVLQAEVGDVILIH LKNFATRPYTIHPHGVFYEKDSEGLYPDGGSSGPLKADDSVPPGGSHIYNWTIPEGH APTDADPACLTWIYHSHVDAPRDIATGLIGPLITCKRGALDGNSPQQRQDVDHDFLL FSVVDENLSWHLNENIATYCSDPASVDKEDETQESNRMHAINGFVFGNLPELNMC AQKRVAWHLFGMGNEIDVHTAFFHGQMLTTRGHHTDVANIFPATFVTAEMVPWEP GTWLISCQVNSHFRDGMQALYKVKSCSMAPPVDLLTGKVRQYFIEAHEIQWDYGPM GHDGSTGKNLREPGSISDKFFQKSSSRIGGTYWKVRYEAFQDETQEKMHLEEDR

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HLGILGPVIRAEVGDITQVVFYNRASQPFSMQPHGVFYEKDYEGTVYNDGSSYPGLV
 AKPFEKVTYRWTVPPHAGPTAQDPACLTWMYFSAADPIRDTNSGLVGPLLVCRAGA
 LGADGKQKGVVDKEFFLLFTVLDENKSWYSNANQAAAMLDLFRLLSEIEGFQDSNRM
 HAINGFLFSNLPRLDMCKGDTVAVHLLGLGTETDVHGVFMFQGNTVQLQGMRKGAA
 MLFPHTFVMAIMQPDNLGTFEIYCQAGSHREAGMRAIYNVSQCPGHQATPRQRYQ
 AARIYYIMAEVEWDYCPDRSWEREWHNQSEKDSYGYIFLSNKDGLLSRYKKAVF
 REYTDGTFRIPRPTGPEEHLGILGPLIKGEVGDILTUVFKNNASRPYSVHAHGVLES
 TTWVPLAAEPGEVVTYQWNIPERSGPGPNDSACVSWIYYSAVDPIKDMYSGLVGPL
 AICQKGILEPHGGRSDMDREFALLFLIFDENKSWYLEENVATHGSQDPGSINLQDET
 FLESNKMHAINGKLYANLRGLTMYQGERVAWYMLAMGQDVDLHTIHFHAESFLYRN
 GENYRADVVDLFPGTFEVVEMVASNPGTWLMHCHVTDHVHAGMETLFTVFSRTEH
 LSPLTVITKETEKAVPPRDIEEGNVKMLGMQIPIKNVEMLASVLVAISVTLVVVLALGG
 VVWYQHRQRKLRRNRRSILDDSFKLLSFKQTRTRPLEQKLISEEDLAANDILDYKDD
 DDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration

50 µg/mL as determined by BCA

Storage Buffer

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name

HEPH hephaestin [Homo sapiens (human)]

Official Symbol

HEPH

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Synonyms	HEPH; hephaestin; CPL; hephaestin
Gene ID	9843
mRNA Refseq	NM_138737
Protein Refseq	NP_620074
MIM	300167
UniProt ID	Q9BQS7
SDS-PAGE	