

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

Cat. No. HEPH-1759H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HEPH MS Standard C13 and N15-labeled recombinant protein (NP_055614) 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	130.4 kDa
AA Sequence	MESGHLLWALLFMQSLWPQLTDGATRVYYLGIRDVQWNYAPKGRNVITNQPLDSDI VASSFLKSDKNRIGGTYKKTIYKEYKDDSYTDEVAQPAWLGLGPVLQAEVGDVILIH LKNFATRPYTIHPHGVFYEKDSEGLYPDGGSSGPLKADDSVPPGGSHIYNWTIPEGH APTDADPACLTWIYHSHVDAPRDIATGLIGPLITCKRGALDGNSPQQRQDVDHDFLL FSVVDENLSWHLNENIATYCSDPASVDKEDETQESNRMHAINGFVFGNLPELNMC AQKRVAWHLFGMGNEIDVHTAFFHGQMLTTRGHHTDVANIFPATFVTAEMVPWEP GTWLISCQVNSHFRDGMQALYKVKSCSMAPPVDLLTGKVRQYFIEAHEIQWDYGPM GHDGSTGKNLREPGSISDKFFQKSSSRIGGTYWKVRYEAFQDETQEKMHLEEDR

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HLGILGPVIRAEVGDTIQVVFYNRASQPFSMQPHGVFYEKDYEGTVYNDGSSYPGLV
 AKPFEKVTYRWTVPPHAGPTAQDPACLTWMYFSAADPIRDTNSGLVGPLLVCRAGA
 LGADGKQKGVVDKEFFLLFTVLDENKSWYSNANQAAAMLDLFRLLSEIEGFQDSNRM
 HAINGFLFSNLPRLDMCKGDTVAVHLLGLGTETDVHGVFMFQGNTVQLQGMRKGAA
 MLFPHTFVMAIMQPDNLGTFEIYCQAGSHREAGMRAIYNVSQCPGHQATPRQRYQ
 AARIYYIMAEVEWDYCPDRSWEREWHNQSEKDSYGYIFLSNKDGLLSRYKKAVF
 REYTDGTFRIPRPTGPEEHLGILGPLIKGEVGDILTUVFKNNASRPYSVHAHGVLES
 TTWVPLAAEPGEVVTYQWNIPERSGPGPNDSACVSWIYYSADVPIKDMYSGLVGPL
 AICQKGILEPHGGRSDMDREFALLFLIFDENKSWYLEENVATHGSQDPGSINLQDET
 FLESNMHAINGKLYANLRGLTMYQGERVAWYMLAMGQDVDLHTIHFHAESFLYRN
 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; KIAA0698; hephaestin
Gene ID	9843
mRNA Refseq	NM_014799
Protein Refseq	NP_055614
MIM	300167
UniProt ID	Q9BQS7
SDS-PAGE	