

Recombinant Human PAH Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. PAH-199H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PAH MS Standard C13 and N15-labeled recombinant protein (NP_000268) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the bipterin-dependent aromatic amino acid hydroxylase protein family. The encoded phenylalanine hydroxylase enzyme hydroxylates phenylalanine to tyrosine and is the rate-limiting step in phenylalanine catabolism. Deficiency of this enzyme activity results in the autosomal recessive disorder phenylketonuria. [provided by RefSeq, Aug 2017]
Molecular Mass	51.8 kDa
AA Sequence	MSTAVLENPGLGRKLSDFGQETSYIEDNCNQNGAISLIFSLKEEVGALAKVLRRLFEEEN DVNLTHIESRPSRLKKDEYEFFTHLDKRSLPALTNIILRH DIGATVHELSDKKKDTV PWFPRTIQELDRFANQILSYGAELDADHPGFKDPVYRARRKQFADIAYNYRHGQPIP RVEYMEEGKKTWGT VFKTLKSLYKTHACYEYNHIFPLLEKYCGFHEDNIPQLEDVSQ FLQTCTGFRLRPVAGLLSSRDFLGGLAFRVFHCTQYIRHGSKPMYTPDPDICHELLG HVPLFSDRSFAQFSQEIGLASLGAPDEYIEKLATIWFTVEFGLCKQGDSIKAYGAGL LSSFGE LQYCLSEKPKLLPLELEKTAIQNYTVTEFQPLYYVAESFNDAKEKVRNFAATI PRPFSVRYDPYTQRIEVLDNTQQLKILADSINSEIGILCSALQKIKTRTRPLEQKLISEE

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DLAANDILDYKDDDDKV

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	PAH phenylalanine hydroxylase [Homo sapiens (human)]
Official Symbol	PAH
Synonyms	PAH; phenylalanine hydroxylase; phenylalanine-4-hydroxylase; PH; phenylalanine 4 monooxygenase; phe-4-monooxygenase; phenylalanine 4-monooxygenase; PKU; PKU1;
Gene ID	5053
mRNA Refseq	NM_000277
Protein Refseq	NP_000268
MIM	612349

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