

Recombinant Human PAH

Cat. No. PAH-28935TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PAH expressed in <i>Saccharomyces cerevisiae</i> ; amino acids 1-452; 452 amino acids, 51.9kDa.
Species	Human
ProteinLength	1-452 a.a.
Description	PAH encodes the enzyme phenylalanine hydroxylase that is the rate-limiting step in phenylalanine catabolism. Deficiency of this enzyme activity results in the autosomal recessive disorder phenylketonuria.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MSTAVLENPGLGRKLSDFGQETSYIEDNCNQNQAISLIFS LKEEVGALAKVLRLFEE NDVNLTHIESRPSRLKKDEYEFF THLDKRSLPALTNIIKILRHDIGATVHELSDKDKK TVPWFPRTIQELDRFANQILSYGAELDADHPGFKDPVYRARRKQ FADIAYNYRHGQ PIPRVEYMEEEEKKTWGTVFKTLKSLYKT HACYEYNHIFPLLEKYCGFHEDNIPQLED

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VSQFLQTCTGF RLRPVAGLLSSRDFLGGLAFRVFHCTQYIRHGSKPMYTPE PDICH
 ELLGHVPLFSDRSFAQFSQEIGLASLGAPDEYIEK LATIYWFTVEFGLCKQGDSIKAY
 GAGLLSSFGELQYCLSE KPKLLPLELEKTAIQNYTVTEFQPLYYYVAESFNDAKEKVR
 NFAATIPRPFVSVRYDPYTQRIEVLNNTQQLKILADSINSE IGILCSALQKIK

Sequence Similarities Belongs to the bipterin-dependent aromatic amino acid hydroxylase family. Contains 1 ACT domain.

Full Length Full L.

GENE INFORMATION

Gene Name [PAH phenylalanine hydroxylase \[Homo sapiens \]](#)

Official Symbol [PAH](#)

Synonyms PAH; phenylalanine hydroxylase; phenylalanine-4-hydroxylase; PH; phenylalanine 4 monooxygenase;

Gene ID [5053](#)

mRNA Refseq [NM_000277](#)

Protein Refseq [NP_000268](#)

MIM [612349](#)

Uniprot ID [P00439](#)

Chromosome Location 12q22-q24.2

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Pathway

Biogenic Amine Synthesis, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Phenylalanine and tyrosine catabolism, organism-specific biosystem;

Function

amino acid binding; iron ion binding; metal ion binding; phenylalanine 4-monooxygenase activity;

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