

Product datasheet for PH304694

PAH (NM_000277) Human Mass Spec Standard

Product data:

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| Product Type: | Mass Spec Standards |
| Description: | PAH MS Standard C13 and N15-labeled recombinant protein (NP_000268) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC204694 |
| Predicted MW: | 51.8 kDa |
| Protein Sequence: | >RC204694 protein sequence Red=Cloning site Green=Tags(s) |
| | MSTAVLENPGLGRKLSDFGQETSYIEDNCNQNGAISLIFSLKEEVGALAKVLRRLFENDVNLTHIESRPS RLKKDEYEFFTHLDRSLPALTNIKILRHDIGATVHELSDRDKKDTVPWFPRTIQELDRFANQILSYGA ELDADHPGFKDPVYRARRKQFADIAYNRHHGQIPRVEYMEEGKKTWGTVFKTLKSLYKTHACYEYNHIF PLLEKYCGFHEDNIPQLEDVSQLQTCTGFRLRPVAGLLSSRDFLGGLAFRVHCTQYIRHGSKPMYTP PDICHELLGHVPLFSDRSFAQFSQEIQLASLGAPDEYIEKLATIIYWFTVEFGLCKQGDSIKAYGAGLLSS FGELQYCLSEKPKLLPLELEKTAIQNYTVTEFQPLYVAESFNDAKEKVRNFAATIPRPFVRYDPYTR IEVLDNTQQLKILADSINSEIGILCSALQKIK |
| | 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: | <u>NP_000268</u> |
| RefSeq Size: | 2680 |
| RefSeq ORF: | 1356 |
| Synonyms: | PH; PKU; PKU1 |



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Locus ID: 5053

UniProt ID: [P00439](#), [A0A024RBG4](#)

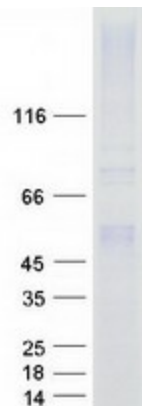
Cytogenetics: 12q23.2

Summary: 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]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Phenylalanine, tyrosine and tryptophan biosynthesis, Phenylalanine metabolism

Product images:



Coomassie blue staining of purified PAH protein (Cat# [TP304694]). The protein was produced from HEK293T cells transfected with PAH cDNA clone (Cat# [RC204694]) using MegaTran 2.0 (Cat# [TT210002]).