

PAH Protein, Human (D415N, sf9, His)

Cat. No.:	HY-P73733
Synonyms:	Phenylalanine-4-hydroxylase; PAH
Species:	Human
Source:	Sf9 insect cells
Accession:	P00439 (M1-K452,D415N)
Gene ID:	5053
Molecular Weight:	Approximately 52 kDa

PROPERTIES

AA Sequence	<pre> MSTAVLENPG LGRKLSDFGQ ETSYIEDNCN QNGAISLIFS LKEEVGALAK VLRLFEENDV NLTHIESRPS RLKKDEYEFF THLDKRS LPA LTNI I K I LRH DIGATVHEL S RDKKKDTVPW FPRTIQELDR FANQ I L S YGA ELDADHPGFK DPVYRARRKQ FADIAYNYRH GQPIPRVEYM EEEKKTWGTV FKTLKSLYKT HACYEYNHIF PLLEKYCGFH EDNIPQLEDV SQFLQTCTGF RLRPVAGLLS SRDFLGGLAF RVFHCTQYIR HGSKPMYTPE PDICHELLGH VPLFSDRSFA QFSQEIGLAS LGAPDEYIEK LATIYWFTVE FGLCKQGDSI KAYGAGLLSS FGELQYCLSE KPKLLPLELE KTAIQNYTVT EFQPLYVVAE SFNDAKEKVR NFAATIPRPF SVRYNPYTQR IEVL DNTQQL KILADSINSE IGILCSALQK IK </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 8.0, 10% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

PAH protein is a key enzyme involved in amino acid metabolism. Its primary function is to catalyze the hydroxylation of L-phenylalanine, converting it into L-tyrosine. This enzymatic activity is a critical step in the conversion of one amino acid to another, specifically contributing to the synthesis of tyrosine from phenylalanine. This process is essential for various biological processes that require the production of tyrosine, which serves as a building block for the synthesis of important molecules like neurotransmitters, thyroid hormones, and melanin. The activity of PAH protein plays a pivotal role in maintaining proper amino acid balance and supporting various physiological functions in the body.

Caution: Product has not been fully validated for medical applications. For research use only.

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