

# Human PAH (D415N) Protein

Cat. No. PAH-HB001

## Description

<b>Source</b>	Recombinant Human PAH (D415N) Protein is expressed from Baculovirus-Insect Cells(Sf9) with His tag at the N-terminus. It contains Met1-Lys452 (D415N).
<b>Accession</b>	P00439
<b>Molecular Weight</b>	The protein has a predicted MW of 52.82 kDa same as Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

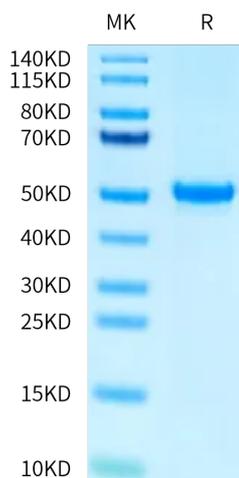
<b>Formulation</b>	Supplied as 0.22 µm filtered solution in 20mM Tris, 500mM NaCl, 10% Glycerol, 3mM DTT (pH 8.0).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Phenylalanine hydroxylase (PAH) is a member of aromatic amino acid hydroxylase (AAAHs) family, and catalyze phenylalanine (Phe) into tyrosine (Tyr). PAH is also an allosteric enzyme that maintains phenylalanine (Phe) below neurotoxic levels; its failure results in phenylketonuria, an inborn error of amino acid metabolism.

## Assay Data

### Bis-Tris PAGE



Human PAH (D415N) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.