

PHS Protein, Human, Recombinant (His)

General Information

Synonyms:	4-Alpha-Hydroxy-Tetrahydropterin Dehydratase;Pterin-4- α -Carbinolamine Dehydratase; Phenylalanine Hydroxylase-Stimulating Protein;Dimerization Cofactor of Hepatocyte Nuclear Factor 1-Alpha;PHS;Dimerization Cofactor of HNF1;Dimerization Cofactor of Hepatocyte Nuclear Factor 1- α ;4- α -Hydroxy-Tetrahydropterin Dehydratase;DCoH;Pterin Carbinolami; Pterin-4-Alpha-Carbinolamine Dehydratase
Protein Construction:	Ala2-Thr104
Species:	Human
Expression Host:	E. coli
Accession:	P61457
Molecular Weight:	14 KDa (reducing condition)
AA Sequence:	Ala2-Thr104

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Supplied as a 0.2 μ m filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 1 mM DTT, pH 8.0.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Pterin-4- α -Carbinolamine Dehydratase (PCBD1) is the founding member of the Pterin-4- α -Carbinolamine Dehydratase Family. PCBD1 is involved in Tetrahydrobiopterin biosynthesis. It seems to prevent the formation of 7-Pterins and accelerate the formation of Quinonoid-BH2. Furthermore, PCBD1 regulates the homodimerization of the transcription factor Hepatocyte Nuclear Factor 1 (HNF1) and enhances its transcriptional activity. Defects in PCBD1 are the cause of BH4-Deficient Hyperphenylalaninemia Type D (HPABH4D). HPABH4D is characterized by the excretion of 7-substituted Pterins in the urine of affected patients.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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