

PHS Protein, Human (His)

Cat. No.:	HY-P71203
Synonyms:	Pterin-4-Alpha-Carbinolamine Dehydratase; PHS; 4-Alpha-Hydroxy-Tetrahydropterin Dehydratase; Dimerization Cofactor of Hepatocyte Nuclear Factor 1-Alpha; DCoH; Dimerization Cofactor of HNF1; Phenylalanine Hydroxylase-Stimulating Protein; Pterin Carbinolamine Dehy
Species:	Human
Source:	E. coli
Accession:	P61457 (A2-T104)
Gene ID:	5092
Molecular Weight:	Approximately 14.0 kDa

PROPERTIES

AA Sequence	<p>A G K A H R L S A E E R D Q L L P N L R A V G W N E L E G R D A I F K Q F H F K</p> <p>D F N R A F G F M T R V A L Q A E K L D H H P E W F N V Y N K V H I T L S T H E</p> <p>C A G L S E R D I N L A S F I E Q V A V S M T</p>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 1 mM DTT, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>PHS protein plays a crucial role in tetrahydrobiopterin biosynthesis, demonstrating its involvement in essential cellular processes. It appears to exhibit a dual function, acting to hinder the formation of 7-pterins while simultaneously expediting the formation of quinonoid-BH₂. Beyond its role in tetrahydrobiopterin biosynthesis, PHS serves as a coactivator for HNF1A-dependent transcription, contributing to the regulation of gene expression. Notably, PHS influences the dimerization of the homeodomain protein HNF1A, augmenting its transcriptional activity. Furthermore, it acts as a coactivator in HNF1B-dependent transcription, showcasing its versatility in modulating various transcriptional processes. These multifaceted functions underscore the significance of PHS in cellular pathways and transcriptional regulation.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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