Recombinant Human 6-Pyruvoyltetrahydropterin Synthase, His-tagged

Cat. No. PTS-492H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PTS fused to His-tag at N-terminus was expressed in E.coli and purified by using conventional chromatography techniques. MW = 18.5 kDa (165aa).
Species	Human
Source	E.coli
Description	6-Pyruvoyltetrahydropterin synthase (PTS), also known as PTPS, belongs to the family of lyases, specifically those carbon-oxygen lyases acting on phosphates. The enzyme encoded by this gene catalyzes the elimination of inorganic triphosphate from dihydroneopterin triphosphate, which is the second and irreversible step in the biosynthesis of tetrahydrobiopterin from GTP. Tetrahydrobiopterin, also known as BH(4), is an essential cofactor and regulator of various enzyme activities, including enzymes involved in serotonin biosynthesis and NO synthase activity. Mutations in this gene result in hyperphenylalaninemia.
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 20% glycerol.
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MSTEGGGRRC QAQVSRRISF SASHRLYSKF LSDEENLKLF GKCNNPNGHG HNYKVVVTVH GEIDPATGMVMNLADLKKYM

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	EEAIMQPLDH KNLDMDVPYF ADVVSTTENV AVYIWDNLQK VLPVGVLYKV KVYETDNNIV VYKGE.
Storage	can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	PTS 6-pyruvoyltetrahydropterin synthase [Homo sapiens]
Synonyms	6-pyruvoyltetrahydropterin synthase; PTPS; FLJ97081; PTS; PTP synthase; 6-pyruvoyl tetrahydrobiopterin synthase;EC 4.2.3.12
Gene ID	5805
mRNA Refseq	NM_000317
Protein Refseq	NP_000308
MIM	612719
UniProt ID	Q03393
Chromosome Location	11q22.3-q23.3
Pathway	Folate biosynthesis; Metabolic pathways
Function	6-pyruvoyltetrahydropterin synthase activity; identical protein binding; lyase activity; metal ion binding; protein homodimerization activity

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