

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 MSTEGGGRRRC QAQVSRRISF SASHRLYSKF LSDEENLKLFGKCNNPNGHG HNYKVVVTVH GEIDPATGMVMNLADLKKYM

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EEAIMQPLDH KNLDMDVPYF ADVVSTTENV AVYIWDNLQK VLPVGVLYKV
KVVETDNNIV 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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