

## Recombinant Human PTS, His-tagged

Cat. No. PTS-31260TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human PTS with N terminal His tag; 165 amino acids, MWt 18.5 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 20% Glycerol, 20mM Tris HCl, 1mM DTT, pH 8.0
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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**Sequences of amino acids**  
 MGSSHHHHHH SSSLVPRGSH MSTEGGGRRRC QAQVSRRI SF SASHRLYSKF  
 LSDEENLKL F GKCNNPNGHG HNYKVVVTVH GEIDPATGMV MNLADLKKYM  
 EEAIMQPLDH KNLDMDVPYF ADVVSTTENV AVYIWDNLQK VLPVGVLYKV  
 KVVYETDNNIV VYKGE

**Sequence Similarities**  
 Belongs to the PTPS family.

**Full Length**  
 Full L.

## GENE INFORMATION

**Gene Name**  
 PTS 6-pyruvoyltetrahydropterin synthase [ Homo sapiens ]

**Official Symbol**  
 PTS

**Synonyms**  
 PTS; 6-pyruvoyltetrahydropterin synthase; 6-pyruvoyl tetrahydrobiopterin synthase; PTPS;

**Gene ID**  
 5805

**mRNA Refseq**  
 NM\_000317

**Protein Refseq**  
 NP\_000308

**MIM**  
 612719

**Uniprot ID**  
 Q03393

**Chromosome Location**  
 11q22.3

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**Pathway**

Folate biosynthesis, organism-specific biosystem; Folate biosynthesis, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nitric oxide, organism-specific biosystem;

**Function**

6-pyruvoyltetrahydropterin synthase activity; identical protein binding; lyase activity; metal ion binding; protein homodimerization activity;

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