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## Product Data Sheet

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Product Name: PTPS Human  
 Cat. No.: GP22204  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	PTP Synthase; 6-Pyruvoyl Tetrahydropterin Synthase; PTPS; PTS; FLJ97081.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSTEGGGRRC QAQVSRRI SF SASHRLYSKF LSDEENLKL F GKCNNPNGHG HNYKVVVTVH GEIDPATGMV MNLADLKKYM EEAIMQPLDH KNLDMDVPYF ADVVSTTENV AVYIWDNLQK VLPVGVLYKV KVYETDNNIV VYKGE.		
Formulation	6-PyruvoylTetrahydropterin Synthase is formulated in 20mM Tris-HCl buffer pH-8, 1mM DTT and 20% glycerol.		

### Introduction

6-PyruvoylTetrahydropterin Synthase is part of the family of lyases, specifically those carbon-oxygen lyases acting on phosphates. 6-PyruvoylTetrahydropterin Synthase catalyzes the elimination of inorganic triphosphate from dihydroneopterin triphosphate, which is the second and irreversible step in the biosynthesis of tetrahydrobiopterin from GTP. Tetrahydrobiopterin, is a necessary cofactor and regulator of a range of enzyme activities, including enzymes involved in serotonin biosynthesis and NO synthase activity. Mutations in 6-PyruvoylTetrahydropterin Synthase gene result in hyperphenylalaninemia.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

6-PyruvoylTetrahydropterin Synthase Human Recombinant produced in e.coli is a single,

**Caution: Product has not been fully validated for medical applications. For research use only.**

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non-glycosylated polypeptide chain containing 165 amino acids (1-145) and having a molecular mass of 18.5kDa. 6-PyruvoylTetrahydropterin Synthase is fused to a 20 amino acid His Tag at N-terminus and purified using conventional chromatography techniques.

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