

PTPS Human

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

Catalog #:ENPS-478

For research use only.

Synonyms: PTP Synthase, 6-Pyruvoyl Tetrahydropterin Synthase, PTPS, PTS, FLJ97081.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MSTEGGRRRC QAQVSRRI SF
SASHRLYSKF LSDEENLKLF GKCNNPNGHG HNYKVVTVH GEIDPATGMV MNLADLKKYM
EEAIMQPLDH KNLDMDVPYF ADVVSTTENV AVYIWDNLQK VLPVGVLYKV KVYETDNNIV
VYKGE.

Purity: Greater than 95.0% as determined by Analysis by SDS-PAGE.

Formulation:

6-PyruvoylTetrahydropterin Synthase is formulated in 20mM Tris-HCl buffer pH-8, 1mM DTT and 20% glycerol.

Stability:

6-PyruvoylTetrahydropterin Synthase although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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.

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