

PTS, 1-145aa Human, His tag, E.coli

Cat.NO.: TP03603

3th Edition

Synonyms:6-pyruvoyltetrahydropterin synthase, PTPS, PTP synthase

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.

Form:Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT

Molecular Weight:18.5 kDa (165aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMSTEGGGRRRCQAQVSRRI SFSASHRLYSKFLSDEENLKLFGKCNNPNHGHN Y
KV VVT VHGEIDPATGMVMNLADLKKYMEEAIMQPLDHKNLDMV P YFADVVSTTENVAVYIWDNLQKVLPVGVLYK
VKVYETDNNIVVYKGE

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.