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AR09335PU-N Human PTS (1-145, His-tag) - Purified

Alternate names: 6-pyruvoyl tetrahydrobiopterin synthase, PTP synthase, PTPS

Quantity: 0.1 mg

Concentration: 1.0 mg/ml (determined by Bradford assay)

Background: 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.

Uniprot ID: Q03393

NCBI: NP_000308

GeneID: 5805

Species: Human

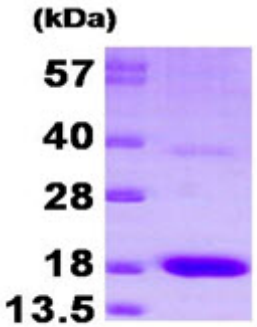
Source: E. coli

Format:
State: Liquid purified protein
Purity: >90% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 20% glycerol

Description: Recombinant human PTS, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MSTEGGGRRC QAQVSRRISF SASHRLYSKF LSDEENLKLF GKCNNPNGHG HNYKVVVTVH GEIDPATGMV MNLADLKKYM EEAIMQPLDH KNLDMDVPYF ADVVSTTENV AVYIWDNLQK VLPVGVLYKV KVYETDNNIV VYKGE
Molecular weight: 18.5 kDa

Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human PTS (1-145 aa), His-tagged: 15% SDS-PAGE (3 µg)