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Product datasheet for TP305199L

PTS (NM_000317) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human 6-pyruvoyltetrahydropterin synthase (PTS), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC205199 protein sequence Red=Cloning site Green=Tags(s) MSTEGGGRRCQAQVSRRISFSASHRLYSKFLSDEENLKLFGKCNNPNGHGHNYKVVVTVHGEIDPATGMV MNLADLKKYMEEAIMQPLDHKNLDMDVPYFADVVSTTENVAVYMWDNLQKVLPVGVLYKVKVYETDNNIV VYKGE TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	16.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000308
Locus ID:	5805
UniProt ID:	Q03393
RefSeq Size:	948

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Cytogenetics: 11q23.1

RefSeq ORF: 435

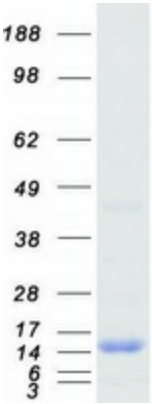
Synonyms: PTPS

Summary: 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. [provided by RefSeq, Oct 2008]

Protein Families: Druggable Genome

Protein Pathways: Folate biosynthesis, Metabolic pathways

Product images:



Coomassie blue staining of purified PTS protein (Cat# [TP305199]). The protein was produced from HEK293T cells transfected with PTS cDNA clone (Cat# [RC205199]) using MegaTran 2.0 (Cat# [TT210002]).