

Product datasheet for PH305199

PTS (NM_000317) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PTS MS Standard C13 and N15-labeled recombinant protein (NP_000308)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205199
Predicted MW:	16.4 kDa
Protein Sequence:	>RC205199 protein sequence Red=Cloning site Green=Tags(s) MSTEGGGRRRCQAQVSRRI SF SASHRLYSKFLSDEENLKLFGKCNPNNGHGHNYKVVVTVHGEIDPATGMV MNLADLKKYMEEAIMQPLDHNLDMDVPYFADVSTTENAVVYMWDNLQKVLPGVLYKVKVYETDNNIV VYKGE TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000308
RefSeq Size:	948
RefSeq ORF:	435
Synonyms:	PTPS
Locus ID:	5805
UniProt ID:	Q03393



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Cytogenetics: 11q23.1

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]).