

Product datasheet for PH305199

OriGene Technologies, Inc.

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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:HumanExpression Host:HEK293

Expression cDNA Clone

RC205199

or AA Sequence: Predicted MW:

16.4 kDa

Protein Sequence: >RC205199 protein sequence

Red=Cloning site Green=Tags(s)

MSTEGGGRRCQAQVSRRISFSASHRLYSKFLSDEENLKLFGKCNNPNGHGHNYKVVVTVHGEIDPATGMV MNLADLKKYMEEAIMQPLDHKNLDMDVPYFADVVSTTENVAVYMWDNLQKVLPVGVLYKVKVYETDNNIV

VYKGE

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

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

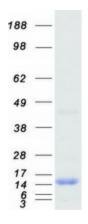
biosynthesis and NO synthase activity. Mutations in this gene result in

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]).