

Product datasheet for **AR09335PU-L**

PTS (1-145, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	PTS (1-145, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SSSLVPRGSH</u> MSTEGGGRRC QAQVSRRI SF SASHRLYSKF LSDEENLKLFGKCNNPNGHG HNYKVVVTVH GEIDPATGMV MNLADLKKYM EEAIMQPLDH KNLDMDVPYFADVSTTENV AVYIWDNLQK VLPVGVLYKV KVYETDNNIV VYKGE
Tag:	His-tag
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 20% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human PTS, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
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.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_000308</u>
Locus ID:	5805
UniProt ID:	<u>Q03393</u>
Cytogenetics:	11q23.1
Synonyms:	PTP synthase, PTPS



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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: