

## Product datasheet

# Recombinant Human PTS protein ab92928

1 Image

### Overview

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<b>Product name</b>	Recombinant Human PTS protein
<b>Protein length</b>	Full length protein

### Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli

### Amino Acid Sequence

<b>Species</b>	Human
<b>Sequence</b>	MGSSHHHHHH SSGLVPRGSH MSTEGGGRRR QAQVSRRI SF SASHRLYSKF LSDEENLKL GKCNPNNGHG HNYKVVVTVH GEIDPATGMV MNLADLKKYM EEAIMQPLDH KNLDMDVPYF ADVVSTTENV AVYWDNLQK VLPVGVLYKV KVYETDNNIV VYKGE

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab92928** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE
<b>Purity</b>	> 90 % SDS-PAGE. Purified using conventional chromatography techniques.
<b>Form</b>	Liquid

### Preparation and Storage

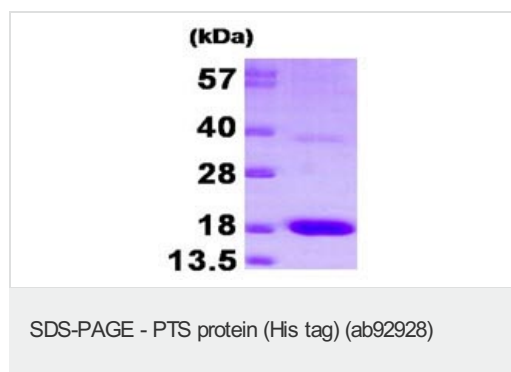
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<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.  Preservative: None Constituents: 20% Glycerol, 20mM Tris HCl, 1mM DTT, pH 8.0
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## General Info

<b>Function</b>	Involved in the biosynthesis of tetrahydrobiopterin, an essential cofactor of aromatic amino acid hydroxylases. Catalyzes the transformation of 7,8-dihydroneopterin triphosphate into 6-pyruvoyl tetrahydropterin.
<b>Pathway</b>	Cofactor biosynthesis; tetrahydrobiopterin biosynthesis; tetrahydrobiopterin from 7,8-dihydroneopterin triphosphate: step 1/3.
<b>Involvement in disease</b>	Defects in PTS are the cause of BH4-deficient hyperphenylalaninemia type A (HPABH4A) [MIM:261640]; also called 6-pyruvoyl-tetrahydropterin synthase deficiency (PTS deficiency) or hyperphenylalaninemia tetrahydrobiopterin-deficient due to PTS deficiency. HPABH4A is an autosomal recessive disorder characterized by depletion of the neurotransmitters dopamine and serotonin, and clinically by severe neurological symptoms unresponsive to the classic phenylalanine-low diet.
<b>Sequence similarities</b>	Belongs to the PTPS family.
<b>Post-translational modifications</b>	Phosphorylation of Ser-19 is required for maximal enzyme activity.

## Images



15% SDS-PAGE analysis of 3µg ab92928

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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