

## Product datasheet

# Recombinant Human Tryptophanyl tRNA synthetase protein ab99263

1 Image

### Overview

<b>Product name</b>	Recombinant Human Tryptophanyl tRNA synthetase protein
<b>Protein length</b>	Full length protein

### Description

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

### Amino Acid Sequence

<b>Accession</b>	<a href="#">P23381</a>
<b>Species</b>	Human
<b>Sequence</b>	<b>MGSSHHHHHSSGLVPRGSH</b> MPNSEPASLLELFNSIATQGELVRSKAGN ASKDEIDSAVKMLVSLKMSYKAAAGEDYKADCPPGNPAPTSNHGPDATEA EEDFVDPWTVQTSSAKGIDYDKLMVRFGSSKIDKELINRIERATGQRPHH FLRRGIFFSHRDMNQVLDAYENKKPFYLYTGRGPSSEAMHVGHLIPFIFT KWLQDVFNVPLVIQMTDDEKYLWKDLTLDQAYSYAVENAKDIIACGFDIN KTFIFSDLDYMGSSGFYKNVVKIQKHVTFNQVKGIFGFTDSDCIGKISF PAIQAAPSFNSFPQIFRDRTDIQCLIPCAIDQDPYFRMTRDVAPRIGYP KPALLHSTFFPALQGAQTKMSASDPNSSIFLTD TAKQIKTKVNKHAFSGG RDTIEEHRQFGGNCDDVDSFMLTFFLEDDDKLEQIRKDYTSGAMLTGEL KKALIEVLQPLIAEHQARRKEVTDEIVKEFMTPRKLSFDFQ

<b>Molecular weight</b>	55 kDa including tags
<b>Amino acids</b>	1 to 471
<b>Tags</b>	His tag N-Terminus

### Specifications

Our [Abpromise guarantee](#) covers the use of **ab99263** 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
	Mass Spectrometry

<b>Mass spectrometry</b>	MALDI-TOF
<b>Purity</b>	> 90 % SDS-PAGE. ab99263 is purified using conventional chromatography techniques.
<b>Form</b>	Liquid

## Preparation and Storage

<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: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 8.0
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## General Info

<b>Function</b>	Isoform 1, isoform 2 and T1-TrpRS have aminoacylation activity while T2-TrpRS lacks it. Isoform 2, T1-TrpRS and T2-TrpRS possess angiostatic activity whereas isoform 1 lacks it. T2-TrpRS inhibits fluid shear stress-activated responses of endothelial cells. Regulates ERK, Akt, and eNOS activation pathways that are associated with angiogenesis, cytoskeletal reorganization and shear stress-responsive gene expression.
<b>Sequence similarities</b>	Belongs to the class-I aminoacyl-tRNA synthetase family. Contains 1 WHEP-TRS domain.
<b>Post-translational modifications</b>	Proteolytic cleavage generates 2 forms; T1-TrpRS and T2-TrpRS.
<b>Cellular localization</b>	Cytoplasm.

## Images



15% SDS-PAGE showing ab99263 (3µg).

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

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