

Product datasheet

Recombinant Human Tryptophanyl tRNA synthetase protein ab99263

1 Image

Overview

Product name	Recombinant Human Tryptophanyl tRNA synthetase protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli

Amino Acid Sequence

Accession	P23381
Species	Human
Sequence	MGSSHHHHHSSGLVPRGSH MPNSEPASLLELFNSIATQGELVRSKAGN ASKDEIDSAVKMLVSLKMSYKAAAGEDYKADCPPGNPAPTSNHGPDTEA EEDFVDPWTVQTSSAKGIDYDKLMVRFGSSKIDKELINRIERATGQRPHH FLRRGIFFSHRDMNQVLDAYENKKPFYLYTGRGPSSEAMHVGHLIPFIFT KWLQDVFNVPLVIQMTDDEKYLWKDLTLDQAYSYAVENAKDIIACGFDIN KTFIFSDLDYMGSSGFYKNVVKIQKHVTFNQVKGIFGFTDSDCIGKISF PAIQAAPSFNSFPQIFRDRTDIQCLIPCAIDQDPYFRMTRDVAPRIGYP KPALLHSTFFPALQGAQTKMSASDPNSSIFLTD TAKQIKTKVNKHAFSGG RDTIEEHRQFGGNCDVDVSFMYLTFLEDDDKLEQIRKDYTSGAMLTGEL KKALIEVLQPLIAEHQARRKEVTDEIVKEFMTPRKLSFDFQ
Molecular weight	55 kDa including tags
Amino acids	1 to 471
Tags	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.

Applications	SDS-PAGE
	Mass Spectrometry

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

Preparation and Storage

Stability and Storage	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

Function	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.
Sequence similarities	Belongs to the class-I aminoacyl-tRNA synthetase family. Contains 1 WHEP-TRS domain.
Post-translational modifications	Proteolytic cleavage generates 2 forms; T1-TrpRS and T2-TrpRS.
Cellular localization	Cytoplasm.

Images



15% SDS-PAGE showing ab99263 (3µg).

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