

Product datasheet for PH313605

Tryptophanyl tRNA synthetase (WARS) (NM_173701) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	WARS MS Standard C13 and N15-labeled recombinant protein (NP_776049)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC213605
Predicted MW:	53.2 kDa
Protein Sequence:	>RC213605 protein sequence Red=Cloning site Green=Tags(s)

MPNSEPASLLELFNSIATQGELVRSKAGNASKDEIDSAVKMLVSLKMSYKAAAGEDYKADCPPGNPAPT
SNHGPDATEAEEDFVDPWTVQTSSAKGIDYDKLIVRFGSSKIDKELINRIERATGQRPHHFLRRGIFFSH
RDMNQVLDAYENKPFYLYTGRGPSSEAMHVGLIPFIFTKWLQDVFNVPLVIQMTDDEKYLWKDLTLDQ
AYSAYAVENAKDIIACGFDINKTFIFSDLDYMGSSGFYKNVVKIQKHVTFNQVKGIFGFTDSDCIGKISF
PAIQAAPSFNSFPQIFRDRTDIQCLIPCAIDQDPYFRMTRDVAPRIGYKPKALLHSTFFPALQGAQTKM
SASDPNSSIFLTDKAKQIKTKVNKHAFSGGRDTIEEHRQFGGNCVDVVSFMYLTFLEDDDKLEQIRKDY
TSGAMLTGELKKALIEVLQPLIAEHQARRKEVTDEIVKEFMTPRKLSFDFQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_776049
RefSeq Size:	2660
RefSeq ORF:	1413
Synonyms:	GAMMA-2; HMN9; IFI53; IFP53; WARS



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Locus ID: 7453

UniProt ID: [P23381](#), [A0A024R6K8](#)

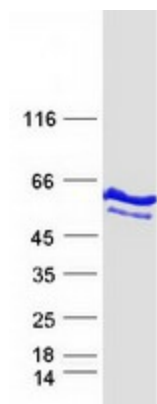
Cytogenetics: 14q32.2

Summary: Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Two forms of tryptophanyl-tRNA synthetase exist, a cytoplasmic form, named WARS, and a mitochondrial form, named WARS2. Tryptophanyl-tRNA synthetase (WARS) catalyzes the aminoacylation of tRNA(trp) with tryptophan and is induced by interferon. Tryptophanyl-tRNA synthetase belongs to the class I tRNA synthetase family. Four transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Aminoacyl-tRNA biosynthesis, Tryptophan metabolism

Product images:



Coomassie blue staining of purified WARS protein (Cat# [TP313605]). The protein was produced from HEK293T cells transfected with WARS cDNA clone (Cat# [RC213605]) using MegaTran 2.0 (Cat# [TT210002]).