
Product Data Sheet

Product Name: WARS Human
 Cat. No.: GP22400
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	GAMMA-2; IFI53; IFP53; WRS; WARS; TrpRS; hWRS; EC=6.1.1.2; Tryptophanyl-tRNA synthetase; INF-induced protein 53; Tryptophan--tRNA ligase; GAMMA-2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MPNSEPASLL ELFNSIATQG ELVRSLKAGN ASKDEIDSAV KMLVSLKMSY KAAAGEDYKA DCPGPNPAPT SNHGPDTEA EEDFVDPWTV QTSSAKGIDY DKLIVRFGSS KIDKELINRI ERATGQRPHH FLRRGIFFSH RDMNQVLDAY ENKKPFYLYT GRGPSSEAMH VGHLIPFIFT KWLQDVFNVP LVIQMTDDEK YLWKDLTLDQ AYSYAVENAK DIIACGFDIN KTFIFSDLDY MGMSSGFYKN VVKIQKHVTF NQVKGIFGFT DSDCIGKISF PAIQAAPSFS NSFPQIFRDR TDIQCLIPCA IDQDPYFRMT RDVAPRIGYP KPALLHSTFF PALQGAQTKM SASDPNSSIF LTDTAKQIKT KVNKHAFSGG RDTIEEHRQF GGNCDVDVSF MYLTFLEDD DKLEQIRKDY TSGAMLTGEL KKALIEVLQP LIAEHQARRK EVTDEIVKEF MTPRKLSFDF Q.		
Formulation	1mg/ml solution containing 20mM Tris-HCl pH-8, 1mM DTT, 0.1M NaCl, 1mM DTT & 10% glycerol.		

Introduction

WARS is part of the class I tRNA synthetase family. 2 types of tryptophanyl tRNA synthetase exist, a cytoplasmic form, called WARS, and a mitochondrial form, called WARS2. WARS catalyzes the aminoacylation of tRNA(trp) with tryptophan and is induced by INF. WARS controls ERK, Akt, and eNOS activation pathways that are related with angiogenesis, cytoskeletal reorganization and shear stress-responsive gene expression.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

WARS Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 491 amino acids (1-471 a.a.) and having a molecular mass of 55.3 kDa. The WARS is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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