

32-7278: Recombinant Human Tryptophan--tRNA Ligase, Cytoplasmic/WARS/TrpRS (N-6His)

Gene : WARS
Gene ID : 7453
Uniprot ID : P23381

Description

Source: E. coli.
MW :55.3kD.

Recombinant Human TrpRS is produced by our E.coli expression system and the target gene encoding Met1-Gln471 is expressed with a 6His tag at the N-terminus. There exists two types of tryptophanyl tRNA synthetases, the cytoplasmic form called WARS, the mitochondrial form called WARS2. WARS catalyzes the aminoacylation of tRNA (trp) with tryptophan and is induced by interferon. WARS regulates ERK, Akt, eNOS activation pathway, which are related with angiogenesis, cytoskeletal reorganization and shear stress-responsive gene expression.

Product Info

Amount : 10 µg / 50 µg
Content : Lyophilized from a 0.2 µm filtered solution of 20mM Tris, 150mM NaCl, pH 8.0.
Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.
Amino Acid : MGSSHHHHHSSGLVPRGSHMPNSEPASLLELFNSIATQGELVRS LKAGNASKDEIDSAVKMLVSLKMSYKAA
AGEDYKADCPPGNPAPTSNHGPDATEAEEDFVDPWTVQTSSAKGIDYDKLIVRFGSSKIDKELINRIERATGQR
PHHFLRRGIFFSHRDMNQVLDAYENKPFYLYTGRGPSSEAMHVGHLIPFIFTKWLQDVFNVPLVIQMTDDEKY
LWKDLTLDQAYSAYAVENAKDIACGFDINKTFIFSDLDYMGSSGFYKNVVKIQKHVTFNQVKGIFGFTDSDCIG
KISFPAIQAAPSFNSFPQIFRDRTDIQCLIPCAIDQDPYFRMTRDVAPRIGYKPKALLHSTFFPALQGAQTKMSAS
DPNSSIFLTD TAKQIKTKVNKHAFSGGRDTIEHRQFGNCDVDVSFMYLTFLEDDDKLEQIRKDYTS GAMLT
GELKKALIEVLQPLIAEHQARRKEVTDEIVKEFMTPRKLSDFDQ

Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.