

WARS Protein, Human (sf9, His)

Cat. No.:	HY-P73540
Synonyms:	Tryptophan--tRNA ligase, cytoplasmic; IFP53; TrpRS; WARS1; WARS
Species:	Human
Source:	Sf9 insect cells
Accession:	P23381 (P2-Q471)
Gene ID:	7453
Molecular Weight:	Approximately 55 kDa

PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, 10% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	WARS, encompassing Isoform 1, Isoform 2, T1-TrpRS, and T2-TrpRS, displays aminoacylation activity, with T2-TrpRS being the exception as it lacks this enzymatic function. In terms of angiostatic activity, Isoform 2, T1-TrpRS, and T2-TrpRS exhibit this property, while Isoform 1 does not possess angiostatic capabilities. Particularly, T2-TrpRS stands out by inhibiting fluid shear stress-activated responses in endothelial cells. WARS plays a pivotal role in regulating key signaling pathways, including ERK, Akt, and eNOS activation, which are associated with angiogenesis, cytoskeletal reorganization, and the expression of genes responsive to shear stress. This multifaceted functionality underscores WARS's involvement in intricate cellular processes and its potential impact on vascular responses.
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Caution: Product has not been fully validated for medical applications. For research use only.

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