

Aspartyl-tRNA Synthetase Human Recombinant

Item Number	rAP-1870
Synonyms	Aspartyl-tRNA synthetase, Cell proliferation-inducing gene 40 protein, AspRS, aspartate tRNA ligase 1 cytoplasmic, EC 6.1.1.12.
Description	DARS Recombinant produced in E. coli is a single polypeptide chain containing 521 amino acids (1-501) and having a molecular mass of 59.3kDa. DARS is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
Uniprot Accession Number	P14868
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MPSASASRKS QEKPREAMDA AEDYAKERYG ISSMIQSQEK PDRVLVRVRD LTIQKADEVV WVRARVHTSR AKGKQCFLVL RQQQFNVQAL VAVGDHASKQ MVK- FAANINK ESIVDVEGVV RKVNQKIGSC TQQDVELHVQ KIYVISLAEP RLPLQLDDAV RPEAEGEREEG RATVNQDTRL DNRVIDLRIS TSQAVFRLQS GICHLFRET L INKGFVEIQT PKIISAASEG GANVFTVSF KNNAYLAQSP QLYKQMCICA DFEKVFSIGP VFRAEDSNTH RHLTEFVGLD IEMAFNYHYH EVMEEIADTM VQIFKGLQER FQTEIQT VNK QFPCEPFKFL EPTLRLEYCE ALAMLREAGV EMGDEDDLST PNEKLLGHLV KEKYDTDFYI LDKYPLAVRP FYTMPDPRNP KQSNSYDMFM RGEEILSGAQ RIHDPQLLTE RALHHGIDLE KIKAYIDSFR FGAPPHAGGG IGLERV TMLF LGLHNVRQTS
Source	E.coli.
Physical Appearance and Stability	Sterile Filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer 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.
Formulation and Purity	The DARS solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 150mM NaCl, 1mM DTT and 40% glycerol. Greater than 85% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**