

## 32-2255: DARS Recombinant Protein

**Alternative Name :** Aspartyl-tRNA synthetase, Cell proliferation-inducing gene 40 protein, AspRS, aspartate tRNA ligase 1 cytoplasmic, EC 6.1.1.12.

### Description

Source : E.coli. 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. DARS uses a 2 step reaction to catalyze the specific attachment of an amino acid to its cognate tRNA: the amino acid (AA) is first activated by ATP to form AA-AMP and then transferred to the acceptor end of the tRNA.

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 85% as determined by SDS-PAGE.  
**Content :** The DARS solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 150mM NaCl, 1mM DTT and 40% glycerol.  
**Storage condition :** 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.  
**Amino Acid :** MGSSHHHHHH SSSLVPRGSH MPSASASRKS QEKPREIMDA AEDYAKERYG ISSMIQSQEK  
PDRVLRVRD LTIQKADVV WVRARVHTSR AKGKQCFLVL RQQQFNVQAL VAVGDHASKQ  
MVKFAANINK ESIVDVEGVV RKNVQKIGSC TQQDVELHVQ KIYVISLAEP RLPLQLDDAV RPEAEGEEEG  
RATVNQDTRL DNRVIDLRYS TSQAVFRLQS GICHLFRETLL INKGFVEIQT PKIISAASEG GANVFTVSFY  
KNNAYLAQSP QLYKQMCICA DFEKVFSIGP VFRAEDSNTH RHLTEFVGLD IEMAFNYHYH EVMEEIADTM  
VQIFKGLQER FQTEIQTVKN QFPCEPFKFL EPTLRLEYCE ALAMLREAGV EMGDEDDLST PNEKLLGHLV  
KEKYDTDFYI LDKYPLAVRP FYTMPDPRNP KQNSYDMFM RGEEILSGAQ RIHDPQLLTE RALHHGIDLE  
KIKAYIDFSR FGAPPHAGGG IGLERVTMLF LGLHNVQRYS MFPRDPKRLT P.

