

## DARS Human

**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.

**Catalog #:** ENPS-598

For research use only.

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

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MPSASASRKS QEKPREIMDA  
AEDYAKERYG ISSMIQSQEK PDRVLVRVRD LTIQKADEVV WVRARVHTSR AKGKQCFLVL  
RQQQFNVQAL VAVGDHASKQ MVKFAANINK ESIVDVEGVV RKNVQKIGSC TQQDVELHVQ  
KIYVISLAEP RLPLQLDDAV RPEAEGEEEG RATVNQDTRL DNRVIDLRIS TSQAVFRLQS  
GICHLFRETLLIN

**Purity:** Greater than 85% as determined by SDS-PAGE.

**Formulation:**

The DARS solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 150mM NaCl, 1mM DTT and 40% glycerol.

**Stability:**

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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

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.

**To place an order, please [Click HERE](#).**