

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
GICHLFRETLL IN

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.

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