
Product Data Sheet

Product Name: DARS Human

Cat. No.: GP21540

Batch No.: 1

Product Data

Purity >98%

Source E.coli.

Physical
Appearance

solid

Shipping
Condition Shipped with Ice Packs.

Synonyms

Aspartyl-tRNA synthetase; Cell proliferation-inducing gene 40 protein; AspRS; aspartate tRNA ligase 1 cytoplasmic; EC 6.1.1.12.

Amino Acid
Sequence

MGSSHHHHHH SGLVPRGSH MPSASARKS QEKPREIMDA AEDYAKERYG
 ISSMIQSQEK PDRVLVRVRD LTIQKADEVV WVRARVHTSR AKGKQCFLVL
 RQQQFNVQAL VAVGDHASKQ MVKFAANINK ESIVDVEGVV RKNVQKIGSC
 TQQDVELHVQ KIYVISLAEP RLPLQLDDAV RPEAEGEEEG RATVNQDTRL
 DNRVIDLRYS TSQAVFRLQS GICHLFRET L INKGFVEIQT PKIISAASEG
 GANVFTVSYF KNNAYLAQSP QLYKQMCICA DFEKVFSIGP VFRAEDSNTH
 RHLTEFVGLD IEMAFNYHYH EVMEEIADTM VQIFKGLQER FQTEIQT VNK
 QFPCEPFKFL EPTLRLEYCE ALAMLREAGV EMGDEDDLST PNEKLLGHLV
 KEKYD TDFYI LDKYPLAVRP FYTMPDPRNP KQSNSYDMFM RGEEILSGAQ
 RIHDPQLLTE RALHHGIDLE KIKAYIDSFR FGAPPHAGGG IGLERV TMLF
 LGLHNVRQTS MFPRDPKRLT P.

Formulation

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

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.

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

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.

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