

Recombinant Human DARS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DARS-2391H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DARS MS Standard C13 and N15-labeled recombinant protein (NP_001340) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of a multienzyme complex that functions in mediating the attachment of amino acids to their cognate tRNAs. The encoded protein ligates L-aspartate to tRNA(Asp). Mutations in this gene have been found in patients showing hypomyelination with brainstem and spinal cord involvement and leg spasticity. Alternative splicing results in multiple transcript variants.
Molecular Mass	57 kDa
AA Sequence	MPSASASRKSQEKPREIMDAAEDYAKERYGISSMIQSQEKPDRLVLRVRDLTIQKAD EVVWVRARVHTSRAKGGKQCFVLVRQQQFNVQALVAVGDHASKQMVKFAANINKESI VDVEGVVRKVNQKIGSCTQQDVELHVQKIYVISLAEPRPLQLDDAVRPEAEGEEEG RATVNQDTRLNDRVIDLRTSTSQAVFRLQSGICHLFRETLINKGFVEIQTPKIISAASE GGANVFTVSYFKNNAYLAQSPQLYKQMCICADFEKVFSIGPVFRAEDSNTHRHLTEF VGLDIEMAFNYHYHEVMEEIADTMVQIFKGLQERFQTEIQTVNKQFPCEPFKFLEPTL RLEYCEALAMLREAGVEMGDEDDLSTPNEKLLGHLVKEKYDTDIFYILDKYPLAVRPF YTMPDPRNPKQSNSYDMFMRGEEILSGAQRIHDPQLLTERALHHGIDLEKIKAYIDSF

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RFGAPPHAGGGIGLERVTMLFLGLHNVRQTSMFPRDPKRLTPTRTRPLEQKLISEED
LAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name DARS aspartyl-tRNA synthetase [Homo sapiens (human)]

Official Symbol DARS

Synonyms DARS; aspartyl-tRNA synthetase; aspartate--tRNA ligase, cytoplasmic; aspartate tRNA ligase 1; cytoplasmic; aspRS; aspartate tRNA ligase 1, cytoplasmic; aspartyl-tRNA synthetase, cytoplasmic; cell proliferation-inducing protein 40; cell proliferation-inducing gene 40 protein; MGC111579; DKFZp781B11202;

Gene ID 1615

mRNA Refseq NM_001349

Protein Refseq NP_001340

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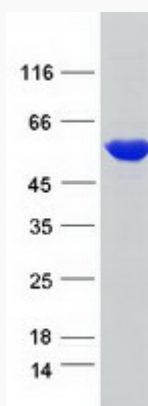
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MIM 603084

UniProt ID P14868

SDS-PAGE



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