

Recombinant Full Length Human DARS1 Protein, C-Flag-tagged

Cat. No. DARS1-1036HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DARS1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	57 kDa
AA Sequence	MPSASASRKSQEKPREIMDAAEDYAKERYGISSMIQSQEKPDRLVLRVRDLTIQKAD EVLVWRARVHTSR AKGKQCFLVLRQQQFNVQALVAVGDHASKQMVKFAANINKES IVDVEGVVRKVNQKIGSCTQQDVELHVQ KIYVISLAEPRPLQLDDAVRPEAEGEEE GRATVNQDTRLNDRVIDLRTSTSQAVFRLQSGICHLFRETIL INKGFVEIQTPKIISAAS EGGANVFTVSYFKNNAYLAQSPQLYKQMCICADFEKVFSIGPVFRAEDSNTH RHLT EFVGLDIEMAFNYHYHEVMEEIADTMVQIFKGLQERFQTEIQTIVNKQFPCEPFKFLEP TLRLEYCE ALAMLREAGVEMGDEDDLSTPNEKLLGHLVKEKYDTDFYILDKYPLAVR

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PFYTMPDPRNPKQSNSYDMFM RGEEILSGAQRIHDPQLLTERALHHGIDLEKIKAYI
 DSFRFGAPPHAGGGIGLERVTMLFLGLHNVRQTS
 MFPRDPKRLTPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Aminoacyl-tRNA biosynthesis
Full Length	Full L.

GENE INFORMATION

Gene Name	DARS1 aspartyl-tRNA synthetase 1 [Homo sapiens (human)]
Official Symbol	DARS1
Synonyms	DARS; HBSL; aspRS
Gene ID	1615
mRNA Refseq	NM_001349.4

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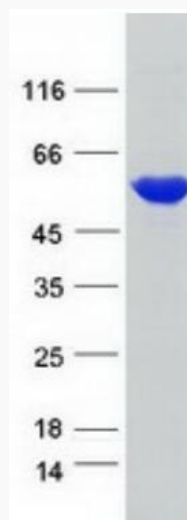
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Protein Refseq NP_001340.2

MIM 603084

UniProt ID P14868



Coomassie blue staining of purified DARS protein.

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