

Recombinant Full Length Human DARS Protein, GST-tagged

Cat. No. DARS-2514HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DARS full-length ORF (AAH00629, 1 a.a. - 501 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	501 amino acids
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. [provided by RefSeq, Jun 2014]
Molecular Mass	80.85 kDa
AA Sequence	MPSASASRKSQEKPREIMDAAEDYAKERYGISSMIQSQEKPDRLVLRVRDLTIQKAD EVLVWRARVHTSRAKQKQCFLVLRQQQFNVQALVAVGDHASKQMVKFAANINKESI VDVEGVVRKVNQKIGSCTQQDVELHVQKIYVISLAEPRPLQLDDAVRPEAEGEEEG RATVNQDTRLNDRVIDLRTSTSQAVFRLQSGICHLFRETLINKGFVEIQTPKIISAASE GGANVFTVSYFKNNAYLAQSPQLYKQMCICADFEKVFSIGPVFRAEDSNTHRHLETF VGLDIEMAFNYHYHEVMEEIADTMVQIFKGLQERFQTEIQTVNKQFPCEPFKFLEPTL RLEYCEALAMLREAGVEMGDEDDLSTPNEKLLGHLVKEKYDTEFYILDKYPLAVRPF

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YTMPDPRNPKQSNSYDMFMRGEEILSGAQRIHDPQLLTERALHHGIDLEKIKAYIDSF
RFGAPPHAGGGIGLERVTMLFLGLHNVRQTSMFPRDPKRLTP

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

DARS aspartyl-tRNA synthetase [Homo sapiens]

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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MIM	603084
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UniProt ID	P14868
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