

Recombinant Human DARS protein, His & T7-tagged

Cat. No. DARS-8220H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human DARS aa. (Gly363~Pro501 (Accession # P14868)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gly363~Pro501
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 19.6kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 6.3.

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Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH ₂ O.
GENE INFORMATION	
Gene Name	DARS aspartyl-tRNA synthetase [Homo sapiens (human)]
Official Symbol	DARS
Synonyms	DARS; aspartyl-tRNA synthetase; HBSL; aspRS; aspartate--tRNA ligase, cytoplasmic; aspartate tRNA ligase 1, cytoplasmic; aspartyl-tRNA synthetase, cytoplasmic; cell proliferation-inducing gene 40 protein; testicular tissue protein Li 192
Gene ID	1615
mRNA Refseq	NM_001293312.1

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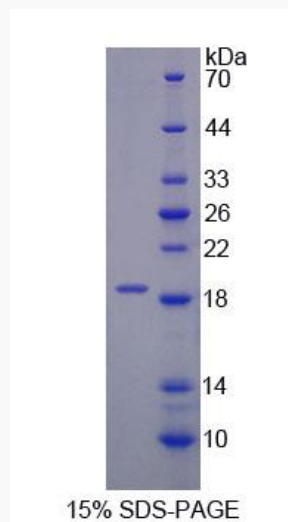
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Protein Refseq NP_001280241.1

UniProt ID P14868

SDS-PAGE



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