

Recombinant Full Length Human DARS2 Protein, C-Flag-tagged

Cat. No. DARS2-443HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DARS2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene belongs to the class-II aminoacyl-tRNA synthetase family. It is a mitochondrial enzyme that specifically aminoacylates aspartyl-tRNA. Mutations in this gene are associated with leukoencephalopathy with brainstem and spinal cord involvement and lactate elevation (LBSL).
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	73.4 kDa
AA Sequence	MYFPSWLSQLYRGLSRPIRRTTQPIWGSlyrSLLQSSQRRRIPEFSSFVVRTNTCGEL RSSHLGQEVTLCG WIQYRRQNTFLVLRDFDGLVQVIIPQDESAASVKKILCEAPVES VVQVSGTVISRPAGQENPKMPTGEIE IKVKTAELLNACKKLPFEIKNFVKKTEALRLQ YRYLDLRSFQMqYNLRLRSQMVMKMREYLCNLHGFVDI ETPTLFKRTPGGAKEFLV PSREPGKFYSLPQSPQQFKQLLMVGGLDRYFQVARCyrDEGSRPDRQPEFTQ IDI EMSFVDQTGIQSLIEGLLQYSWPNdkDPVVVPFPTMTFAEVLATYGTdkPDTRFGM KIIDISDVFRN TEIGFLQDALSKPHGTVKAICIEGAKYLKRKDIESIRNFAADHFNQEIL PVFLNANRNWNSPVANFIME SQrLELIRLMETQEEDVVLLTAGEHNKACsLLGKLRL

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ECADLLETRGVVLRDPTLFSFLWVDFPLFLPK EENPRELESAHHPFTAPHPSDIHL
 LYTEPKKARSQHYDLVLNGNEIGGGSIRIHNAELQRYILATLLKED VKMLSHLLQALD
 YGAPPHGGIALGLDRLICLV TGSPSIRDVIAFPKSFRGHDLM SNTPD SVPPEELKPYH
 IRVSKPTDSKAERAHTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

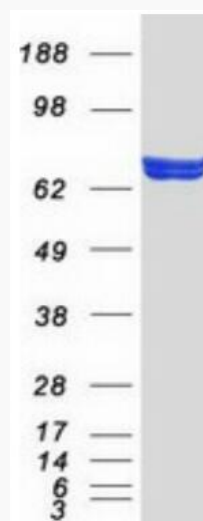
Gene Name	DARS2 aspartyl-tRNA synthetase 2, mitochondrial [Homo sapiens (human)]
Official Symbol	DARS2
Synonyms	LBSL; ASPRS; mtAspRS; MT-ASPRS
Gene ID	55157

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mRNA Refseq	NM_018122.5
Protein Refseq	NP_060592.2
MIM	610956
UniProt ID	Q6PI48



Coomassie blue staining of purified DARS2 protein.