

Recombinant Human DARS2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DARS2-2020H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DARS2 MS Standard C13 and N15-labeled recombinant protein (NP_060592) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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).
Molecular Mass	73.4 kDa
AA Sequence	MYFPSWLSQLYRGLSRPIRRTTQPIWGSlyRSLLQSSQRRRIPEFSSFVVRTNTCGEL RSSHLGQEVTLCGWIQYRRQNTFLVLRDFDGLVQVIIPQDESAASVKKILCEAPVESV VQVSGTVISRPAGQENPKMPTGEIEIKVKTAELLNACKKLPFEIKNFVKKTEALRLQY RYLDLRSFQMQYNLRLRSQMVMKMREYLCNLHGFVDIETPTLFKRTPGGAKEFLVP SREPGKFYSLPQSPQQFKQLLMVGGLDRYFQVARCyrDEGSRPDRQPEFTQIDIEM SFVDQTGIQSLIEGLLQYSWPNDKDPVVVPFPTMTFAEVLATYGTDKPDTRFGMKIID ISDVFRNTEIGFLQDALSKPHGTVKAICIEGAKYLRKRDIESIRNFAADHFNQEILPVF LNANRNWNSPVANFIMESQRLELIRLMETQEEDVLLTAGEHNKACSLGKLRLECA DLLETRGVVLRDPTLFSFLWVVDFFLPKEENPRELESAHHPFTAPHPSDIHLLYTE

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PKKARSQHYDLVLNGNEIGGGSIRIHNAELQRYILATLLKEDVKMLSHLLQALDYGAP
PHGGIALGLDRLICLVGTGSPSIRDVIAFPKSFGRHDLMSNTPDSVPPEELKPYHIRVSK
PTDSKAERAHTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 DARS2 aspartyl-tRNA synthetase 2, mitochondrial [Homo sapiens (human)]

Official Symbol DARS2

Synonyms DARS2; aspartyl-tRNA synthetase 2, mitochondrial; aspartate--tRNA ligase, mitochondrial; aspartate tRNA ligase 2; mitochondrial; FLJ10514; aspartate tRNA ligase 2, mitochondrial; aspartyl-tRNA synthetase, mitochondrial; LBSL; ASPRS; MT-ASPRS; RP3-383J4.2;

Gene ID 55157

mRNA Refseq NM_018122

Protein Refseq NP_060592

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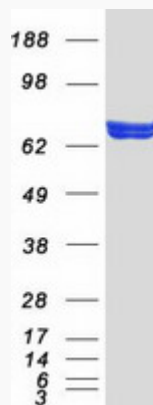
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MIM 610956

UniProt ID Q6PI48

SDS-PAGE



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