

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

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b> | DARS2 MS Standard C13 and N15-labeled recombinant protein (NP_060592) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | 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).                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | 73.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | MYFPSWLSQLYRGLSRPIRRTTQPIWGSlyRSLLQSSQRRRIPEFSSFVVRTNTCGEL<br>RSSHLGQEVTLCGWIQYRRQNTFLVLRDFDGLVQVIIPQDESAASVKKILCEAPVESV<br>VQVSGTVISRPAGQENPKMPTGEIEIKVKTAELLNACKKLPFEIKNFVKKTEALRLQY<br>RYLDLRSFQMQYNLRLRSQMVMKMREYLCNLHGFVDIETPTLFKRTPGGAKEFLVP<br>SREPGKFYSLPQSPQQFKQLLMVGGLDRYFQVARCyrDEGSRPDRQPEFTQIDIEM<br>SFVDQTGIQSLIEGLLQYSWPNDKDPVVVPFPTMTFAEVLATYGTDKPDTRFGMKIID<br>ISDVFRNTEIGFLQDALSKPHGTVKAICIPEGAKYLKRKDIESIRNFAADHFNQEILPVF<br>LNANRNWNSPVANFIMESQRLELIRLMETQEEDVLLTAGEHNKACSLGKLRLECA<br>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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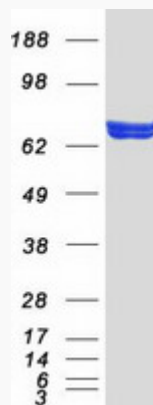
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MIM 610956

UniProt ID Q6PI48

SDS-PAGE



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