

## Product datasheet for **TP300391M**

### **DARS1 (NM\_001349) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human aspartyl-tRNA synthetase (DARS), 100 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC200391 representing NM_001349 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MPSASASRKSQEKPREIMDAAEDYAKERYGISSMIQSQEKPDRVLRVRLTLTIQKADEVVWVRARVHTSR  
AKGKQCFLVLRQQQFNVQALVAVGDHASKQMVKFAANINKESIVDVEGVWRKVNQKIGSCTQQDVELHVQ  
KIYVISLAEPRPLQLDDAVRPEAEEGEEGRATVNQDTRLNDRVIDLRTSTSQAVFRLQSGICHLFRETL  
INKGFVEIQTPKIISAASEGGANVFTVSYFKNNAYLAQSPQLYKQMCICADFEKVFISIGPVFRAEDSNTH  
RHLTEFVGLDIEMAFNYHYHEVMEEIADTMVQIFKGLQERFQTEIQTVNKQFPCEPFKLEPTLRLEYCE  
ALAMLREAGVEMGDEDDLSTPNEKLLGHLVKEKYDADFYILDKYPLAVRPFYTMPDPRNPKQSNYSYDMFM  
RGEEILSGAQRIHDPQLLTERALHHGIDLEKIKAYIDSFREFGAPPHAGGGIGLERVTMLFLGLHNVQRQTS  
MFPRDPKRLTP

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	57 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_001340](#)

Locus ID: 1615

UniProt ID: [P14868](#), [A0A140VJW5](#)

RefSeq Size: 2322

Cytogenetics: 2q21.3

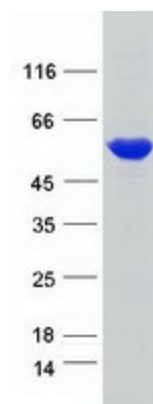
RefSeq ORF: 1503

Synonyms: aspRS; DARS; HBSL

**Summary:** 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]

**Protein Pathways:** Aminoacyl-tRNA biosynthesis

### Product images:



Coomassie blue staining of purified DARS protein (Cat# [TP300391]). The protein was produced from HEK293T cells transfected with DARS cDNA clone (Cat# [RC200391]) using MegaTran 2.0 (Cat# [TT210002]).