

# Recombinant Human DARS, His-tagged

**Cat. No.** DARS-3672H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Aspartate--tRNA ligase, cytoplasmic (DARS)                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.Coli/Yeast                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 501                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | Aspartyl-tRNA synthetase (DARS) is part of a multienzyme complex of aminoacyl-tRNA synthetases. Aspartyl-tRNA synthetase charges its cognate tRNA with aspartate during protein biosynthesis.                                                                                                                 |
| <b>Form</b>             | This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.                                                                                                                                                                              |
| <b>Purity</b>           | >90%                                                                                                                                                                                                                                                                                                          |
| <b>Notes</b>            | Small volumes of DARS recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain products may require to ship with dry ice. |
| <b>Storage</b>          | Store at -20 degree C. For extended storage, store at -20 or -80 degree C.                                                                                                                                                                                                                                    |
| <b>Storage Buffer</b>   | PBS pH 7.4, 50% glycerol                                                                                                                                                                                                                                                                                      |

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**Warning**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GENE INFORMATION**

**Gene Name** [DARS aspartyl-tRNA synthetase \[ Homo sapiens \]](#)

**Official Symbol** DARS

**Synonyms**

DARS; aspartyl-tRNA synthetase; aspartate--tRNA ligase, cytoplasmic; aspartate tRNA ligase 1; cytoplasmic; aspRS; aspartate tRNA ligase 1, cytoplasmic; aspartyl-tRNA synthetase, cytoplasmic; cell proliferation-inducing protein 40; cell proliferation-inducing gene 40 protein; MGC111579; DKFZp781B11202;

**Gene ID** [1615](#)

**mRNA Refseq** [NM\\_001349](#)

**Protein Refseq** [NP\\_001340](#)

**MIM** [603084](#)

**UniProt ID** [P14868](#)

**Chromosome Location** 2q21.3

**Pathway**

Alanine and aspartate metabolism, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, conserved biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, organism-specific biosystem; Aminoacyl-tRNA

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**Function**

ATP binding; aminoacylase activity; aspartate-tRNA ligase activity; ligase activity; nucleic acid binding; nucleotide binding; protein binding;

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