

Recombinant Human NARS Protein (Met1-Arg330), His tagged

Cat. No. NARS-4660H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human NARS (Met1-Arg330) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Arg330
Description	Metalloendopeptidase of the mitochondrial matrix that functions in peptide cleavage and degradation rather than in protein processing. Has an ATP-independent activity. Specifically cleaves peptides in the range of 5 to 65 residues. Shows a preference for cleavage after small polar residues and before basic residues, but without any positional preference. Degrades the transit peptides of mitochondrial proteins after their cleavage. Also degrades other unstructured peptides. It is also able to degrade amyloid-beta protein 40, one of the peptides produced by APP processing, when it accumulates in mitochondrion. It is a highly efficient protease, at least toward amyloid-beta protein 40. Cleaves that peptide at a specific position and is probably not processive, releasing digested peptides intermediates that can be further cleaved subsequently.
Form	Lyophilized powder/frozen liquid
Molecular Mass	38.33 kDa

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Purity	>90% as determined by SDS-PAGE.
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	NARS asparaginyl-tRNA synthetase [Homo sapiens (human)]
Official Symbol	NARS
Synonyms	NARS; asparaginyl-tRNA synthetase; asparagine--tRNA ligase, cytoplasmic; asparagine tRNA ligase 1; cytoplasmic; NARS1; asparagine tRNA ligase 1, cytoplasmic; asparaginyl-tRNA synthetase, cytoplasmic; ASNRS;
Gene ID	4677
mRNA Refseq	NM_004539
Protein Refseq	NP_004530
MIM	108410

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UniProt ID

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