

## Product datasheet for PH304825

### NMNAT1 (NM\_022787) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	NMNAT1 MS Standard C13 and N15-labeled recombinant protein (NP_073624)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204825
Predicted MW:	31.9 kDa
Protein Sequence:	>RC204825 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MENSEKTEVLLACGSFNPITNMHLRLFELAKDYMNGTGRTYVVKGIISPVGDAYKKKGLIPAYHRVIMA ELATKNSKWVEVDTWESLQKEWKETLKVLRHHQEKLEASDCDHQQNSPTLERPGRKRKWTETQDSSQKKS LEPKTKAVPKVKLLCGADLLESFVAVPNLWKSSEDITQIVANYGLICVTRAGNDAQKFYIESDVLWKHRSNI HVVNEWIANDISSTKIRRALRRGQSIRYLVDPDLVQEYIEKHNLVSESEDRNAGVILAPLQRNTAEAKT  <b>TRTRP</b> <b>LEQKLISEEDLAANDILDYKDDDDK</b> <b>V</b>
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_073624</a>
RefSeq Size:	3781
RefSeq ORF:	837
Synonyms:	LCA9; NMNAT; PNAT1; SHILCA
Locus ID:	64802
UniProt ID:	<a href="#">Q9HAN9</a> , <a href="#">A0A024R4E1</a>



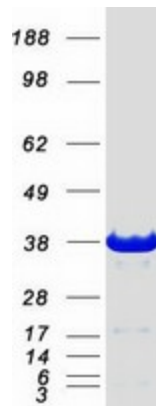
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**Cytogenetics:** 1p36.22

**Summary:** This gene encodes an enzyme which catalyzes a key step in the biosynthesis of nicotinamide adenine dinucleotide (NAD). The encoded enzyme is one of several nicotinamide nucleotide adenylyltransferases, and is specifically localized to the cell nucleus. Activity of this protein leads to the activation of a nuclear deacetylase that functions in the protection of damaged neurons. Mutations in this gene have been associated with Leber congenital amaurosis 9. Alternative splicing results in multiple transcript variants. Pseudogenes of this gene are located on chromosomes 1, 3, 4, 14, and 15. [provided by RefSeq, Jul 2014]

**Protein Pathways:** Metabolic pathways, Nicotinate and nicotinamide metabolism

### Product images:



Coomassie blue staining of purified NMNAT1 protein (Cat# [TP304825]). The protein was produced from HEK293T cells transfected with NMNAT1 cDNA clone (Cat# [RC204825]) using MegaTran 2.0 (Cat# [TT210002]).