

Product datasheet for **TP504325**

Nmnat2 (NM_175460) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse nicotinamide nucleotide adenylyltransferase 2 (Nmnat2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA	>MR204325 representing NM_175460
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MTETTKTHVILLACGSFNPITKGHIQMFERARDYLHKTGRFVIGGIVSPVHDSYGKQGLVSSRHRRLIMC
QLAVQNSDWIRVDPWECYQDTWQTTCVLEHHRDLMKRVTCILSNVNTPSMTPVIGQPQHENTQPIYQN
SNVPTKPTAAKILGKVGESLRRICCVRPPVERFTFVDENANLGTVMRYEEIELRILLCGSDLLESFCIP
GLWNEADMEVIVGDFGIVVPRDAADTDRIMNHSSILRKYKNNIMVVKDDINHPMSVVSSTKSRLALQHG
DGHVVDYLSQPVIDYILKSQLYINASG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	35 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_780669
Locus ID:	226518
UniProt ID:	Q8BNJ3 , Q5HZI3



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RefSeq Size: 4548

Cytogenetics: 1 G3

RefSeq ORF: 921

Synonyms: AI843915; D030041I09Rik; PNAT1; PNAT2

Summary: Nicotinamide/nicotinate-nucleotide adenylyltransferase that acts as an axon maintenance factor (PubMed:20126265, PubMed:23082226). Catalyzes the formation of NAD(+) from nicotinamide mononucleotide (NMN) and ATP (By similarity). Can also use the deamidated form; nicotinic acid mononucleotide (NaMN) as substrate but with a lower efficiency (By similarity). Cannot use triazofurin monophosphate (TrMP) as substrate (By similarity). Also catalyzes the reverse reaction, i.e. the pyrophosphorolytic cleavage of NAD(+) (By similarity). For the pyrophosphorolytic activity prefers NAD(+), NADH and NaAD as substrates and degrades nicotinic acid adenine dinucleotide phosphate (NHD) less effectively (By similarity). Fails to cleave phosphorylated dinucleotides NADP(+), NADPH and NaADP(+) (By similarity). Axon survival factor required for the maintenance of healthy axons: acts by delaying Wallerian axon degeneration, an evolutionarily conserved process that drives the loss of damaged axons (PubMed:20126265, PubMed:23082226).[UniProtKB/Swiss-Prot Function]