



# Recombinant Human Nicotinamide mononucleotide adenylyltransferase 1 (NMNAT1)

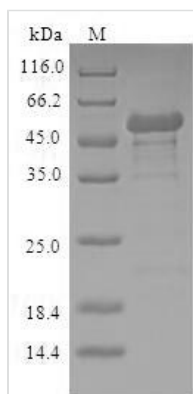
<b>Product Code</b>	CSB-EP864012HU
<b>Relevance</b>	Catalyzes the formation of NAD <sup>+</sup> from nicotinamide mononucleotide (NMN) and ATP. Can also use the deamidated form; nicotinic acid mononucleotide (NaMN) as substrate with the same efficiency. Can use triazofurin monophosphate (TrMP) as substrate. Also catalyzes the reverse reaction, i.e. the pyrophosphorolytic cleavage of NAD <sup>+</sup> . For the pyrophosphorolytic activity, prefers NAD <sup>+</sup> and NaAD as substrates and degrades NADH, nicotinic acid adenine dinucleotide phosphate (NADP) and nicotinamide guanine dinucleotide (NGD) less effectively. Involved in the synthesis of ATP in the nucleus, together with PARP1, PARG and NUDT5. Nuclear ATP generation is required for extensive chromatin remodeling events that are energy-consuming. Fails to cleave phosphorylated dinucleotides NADP <sup>+</sup> , NADPH and NaADP <sup>+</sup> . Protects against axonal degeneration following mechanical or toxic insults
<b>Abbreviation</b>	NMNAT1
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q9HAN9
<b>Alias</b>	Nicotinamide-nucleotide adenylyltransferase 1
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MENSEKTEVVLLACGSFNPITNMHLRLFELAKDYMNGTGRYTVVKGIISPVGDAYKKKGLIPAYHRVIMAELATKNSKWVEVDTWESLQKEWKETLKVLRHHQEKLEASDCDHQQNSPTLERPGRKRKWTETQDSSQKKSLEPKTKAVPKVKLLCGADLLESFAVPNLWKSEDTQIVANYGLICVTRAGNDAQKFIYESDVLWKHRSNIHVVNEWIANDISSTKIRRALRRGQSIRYLVPDLVQEYIEKHNLYSSESEDRNAGVILAPLQRNTAEAKT
<b>Lead Time</b>	Delivery time may differ from different purchasing way or location, please kindly consult your local distributors for specific delivery time.
<b>Research Area</b>	Epigenetics and Nuclear Signaling
<b>Source</b>	E.coli
<b>Gene Names</b>	NMNAT1
<b>Protein Names</b>	Recommended name: Nicotinamide mononucleotide adenylyltransferase 1 Short name= NMN adenylyltransferase 1 EC= 2.7.7.1 Alternative name(s): Nicotinate-nucleotide adenylyltransferase 1 Short name= NaMN



adenylyltransferase 1

<b>Expression Region</b>	1-279aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal GST-tagged
<b>Mol. Weight</b>	58.9kDa
<b>Protein Description</b>	Full Length

#### Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

#### Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.