

NMNAT1, human recombinant

CATALOG #:	7561-10	10 µg
	7561-50	50 µg
ALTERNATE NAMES:	Nicotinamide Mononucleotide Adenylyltransferase 1, NMN Adenylyltransferase 1; NaMN Adenylyltransferase 1; EC 2.7.7.1.	
SOURCE:	E. Coli	
PURITY:	≥ 95% by SDS-PAGE gel	
MOL. WEIGHT:	~33.3 kDa (monomer). Human full-length NMNAT1 (aa 1-279) is fused at the N-terminus to a His-tag.	
ENDOTOXIN LEVEL:	N/A.	
FORM:	Liquid	
FORMULATION:	1 mg/ml in 50 mM sodium phosphate, pH 8.0 containing 300 mM sodium chloride, 2 mM DTT and 10% glycerol.	
STORAGE CONDITIONS:	Prepare aliquots and store at -20°C. Avoid repeated freeze/thaw cycles.	
DESCRIPTION:	This is the nuclear NMNAT isoform. It catalyzes the formation of NAD ⁺ from nicotinamide mononucleotide (NMN) and ATP. It can also use the deamidated form of nicotinic acid mononucleotide (NAMN) as substrate with the same efficiency. It interacts with PARP-1/ARTD1. It protects against axonal degeneration following mechanical or toxic insults. It is widely expressed.	
BIOLOGICAL ACTIVITY:	≥ 5U/mg protein. One unit is defined as the amount of enzyme that synthesizes 1 µmol of NAD ⁺ per min.	

APPLICATION:

Well suited for the synthesis of NAD due to high specific activity and high substrate selectivity compared to NMNAT3 (Cat # 7562-10, -50). For NAD analog synthesis use NMNAT3 (Cat # 7562-10, -50).

Note:

When loss of activity is observed add 10 mM DTT to the working buffer and incubate for at least 15 min before the assay.

RELATED PRODUCTS:

- NMNAT3, human recombinant (**Cat. No. 7562-10, -50**)
- NAD/NADH Quantitation Colorimetric Kit (**Cat. No. K337-100**)
- NADP/NADPH Quantitation Colorimetric Kit (**Cat. No. K347-100**)
- PicoProbe™ NADH Fluorometric Assay Kit (**Cat. No. K338-100**)
- PicoProbe™ NADPH Quantitation Fluorometric Assay Kit (**Cat. No. K349-100**)
- NAD Kinase (catalytic domain), human recombinant (**Cat. No. 7559-10**)
- NAD Kinase, human recombinant (**Cat. No. 7560-10**)

FOR RESEARCH USE ONLY! Not to be used in humans.