

Human NMNAT1 Protein

Cat. No. LCA-HB109

KACATUS

Description

Source	Recombinant Human NMNAT1 Protein is expressed from Baculovirus-Insect Cells(Sf9) with His tag at the C-terminus.
	It contains Met1-Thr279.
Accession	Q9HAN9
Molecular Weight	The protein has a predicted MW of 33.46 kDa same as Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 90% as determined by HPLC

Formulation and Storage

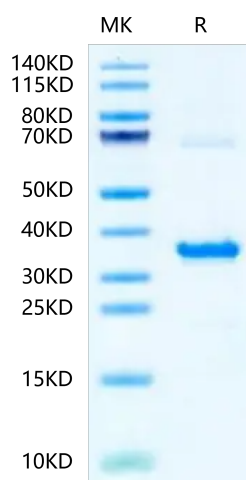
Formulation	Lyophilized from 0.22µm filtered solution in 20mM Tris, 500mM NaCl, 3mM DTT (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Nicotinamide mononucleotide adenylyltransferase (NMNAT), a rate-limiting enzyme present in all organisms, reversibly catalyzes the important step in the biosynthesis of NAD from ATP and NMN. NMNAT also catalyzes the metabolic conversion of potent antitumor prodrugs like tiazofurin and benzamide riboside to their active forms which are analogs of NAD.

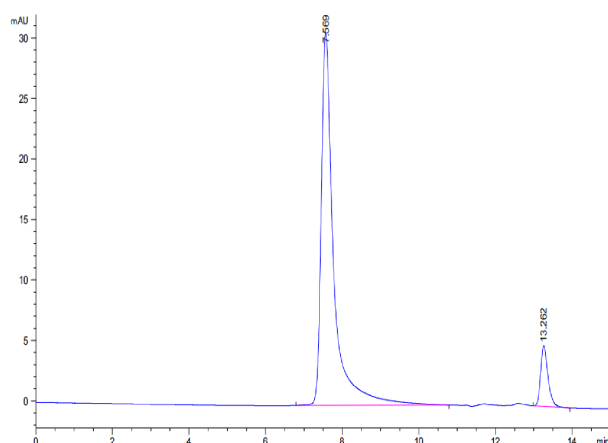
Assay Data

Bis-Tris PAGE



Human NMNAT1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human NMNAT1 is greater than 90% as determined by SEC-HPLC.