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Datasheet for ABIN7504480

NMNAT1 Protein (AA 1-279) (His tag)

Overview

| | |
|-------------------------------|-----------------------------------------------|
| Quantity: | 100 µg |
| Target: | NMNAT1 |
| Protein Characteristics: | AA 1-279 |
| Origin: | Human |
| Source: | Baculovirus infected Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This NMNAT1 protein is labelled with His tag. |

Product Details

| | |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Purpose: | Human NMNAT1 Protein |
| Sequence: | Met1-Thr279 |
| Characteristics: | Recombinant Human NMNAT1 Protein is expressed from Baculovirus-Insect Cells with His tag at the C-terminus. It contains Met1-Thr279. |
| Purity: | > 95 % as determined by Tris-Bis PAGE |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | Less than 1EU per µg by the LAL method. |

Target Details

| | |
|-------------------|--------------------------------------------|
| Target: | NMNAT1 |
| Alternative Name: | NMNAT1 (NMNAT1 Products) |

Target Details

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.

Molecular Weight: 33.46 kDa same as Tris-Bis PAGE result.

UniProt: [Q9HAN9](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.

Buffer: Lyophilized from 0.22µm filtered solution in 20 mM Tris, 500 mM NaCl, 3 mM DTT (pH 7.5). Normally 8 % trehalose is added as protectant before lyophilization.

Preservative: Dithiothreitol (DTT)

Precaution of Use: This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C,-80 °C

Storage Comment: -20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Expiry Date: 12 months