

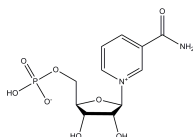
## Product: $\beta$ -Nicotinamide mononucleotide

**ALTERNATE NAME:**  $\beta$ -NMN,  $\beta$ -Nicotinamide ribose monophosphate, NMN, Nicotinamide ribotide, Nicotinamide-1-ium-1- $\beta$ -D-ribofuranoside 5'-phosphate

**CATALOG #:** 2733-25, 100, 250

**AMOUNT:** 25 mg, 100 mg, 250 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>11</sub>H<sub>15</sub>N<sub>2</sub>O<sub>8</sub>P

**MOLECULAR WEIGHT:** 334.22

**CAS NUMBER:** 1094-61-7

**APPEARANCE:** White lyophilized powder

**SOLUBILITY:** H<sub>2</sub>O (50 mg/ml)

**PURITY:**  $\geq$ 98% by HPLC

**STORAGE:** Store at -20 °C. Protect from air and moisture

**DESCRIPTION:** Nicotinamide mononucleotide (NMN), a product of the NAMPT reaction and a key NAD<sup>+</sup> intermediate, ameliorates glucose intolerance by restoring NAD<sup>+</sup> levels in HFD-induced T2D mice. NMN also enhances hepatic insulin sensitivity and restores gene expression related to oxidative stress, inflammatory response, and circadian rhythm, partly through SIRT1 activation. NMN is used for studying binding motifs within RNA aptamers and ribozyme activation processes involving  $\beta$ -nicotinamide mononucleotide ( $\beta$ -NMN)-activated RNA fragments.

**REFERENCES:** Yoshino, J., *et al.* (2011). *Cell Metabolism* **14**, 528-536.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

### RELATED PRODUCTS:

$\beta$ -Nicotinamide mononucleotide (Cat. No. 2733-25, 100, 250)

$\beta$ -NAD (Cat. No. 2734-100, 250, 1000)

NADH (Cat. No. 2735-500, 1000, 5000)

NADP, disodium salt (Cat. No. 2736-500, 1000, 5000)

NADP, sodium salt (Cat. No. 2737-500, 1000, 5000)

NADPH, tetrasodium salt (Cat. No. 2738-50, 250, 1000)

**FOR RESEARCH USE ONLY! Not to be used on humans.**