

Datasheet for ABIN7505507

NAMPT Protein (AA 1-491) (His tag)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	NAMPT
Protein Characteristics:	AA 1-491
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NAMPT protein is labelled with His tag.

Product Details

Sequence:	Met1-His491
Characteristics:	A DNA sequence encoding the Rat NAMPT protein (Q80Z29) (Met1-His491) was expressed with a N-His .
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	NAMPT
Alternative Name:	NAMPT (NAMPT Products)
Background:	Abbreviation: NAMPT,PBEF Target Synonym: Nicotinamide phosphoribosyltransferase,NAmPRTase,Nampt,Pre-B-cell colony-enhancing factor 1 homolog,PBEF,Visfatin Background: Catalyzes the condensation of nicotinamide with 5-phosphoribosyl-1-

Target Details

pyrophosphate to yield nicotinamide mononucleotide, an intermediate in the biosynthesis of NAD. It is the rate limiting component in the mammalian NAD biosynthesis pathway. The secreted form behaves both as a cytokine with immunomodulating properties and an adipokine with anti-diabetic properties, it has no enzymatic activity, partly because of lack of activation by ATP, which has a low level in extracellular space and plasma. Plays a role in the modulation of circadian clock function. NAMPT-dependent oscillatory production of NAD regulates oscillation of clock target gene expression by releasing the core clock component: CLOCK-BMAL1 heterodimer from NAD-dependent SIRT1-mediated suppression.

Molecular Weight: Calculated MW: 53.9 kDa
Observed MW: 58 kDa

UniProt: [Q80Z29](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 12 months