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Datasheet for ABIN1344091

## NAMPT Protein (AA 1-491) (His tag)

1 Image

2 Publications

### Overview

Quantity:	50 µg
Target:	NAMPT
Protein Characteristics:	AA 1-491
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This NAMPT protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

### Product Details

Cross-Reactivity:	Human
Characteristics:	Intracellular human Nampt (visfatin/PBEF) (aa 1-491) is fused at the C-terminus to a His-tag.
Purity:	>90 % (SDS-PAGE)
Endotoxin Level:	<1EU/µg purified protein (LAL test, Lonza).

### Target Details

Target:	NAMPT
Alternative Name:	Nampt (Visfatin/PBEF) ( <a href="#">NAMPT Products</a> )
Background:	Nicotinamide phosphoribosyltransferase (Nampt, pre-B cell colony-enhancing factor, PBEF,

## Target Details

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Visfatin) is an 52 kDa adipokine secreted by adipose tissue and involved in the biosynthesis of nicotinamide adenine dinucleotide (NAD<sup>+</sup>). Two forms of Nampt exist, an intracellular form (iNampt) and an extracellular form (eNampt). While the function of iNampt as an essential and rate-limiting NAD<sup>+</sup> biosynthetic enzyme is well established, the physiological role of eNampt is still a matter of debate. Nampt has various functions, including the promotion of vascular smooth muscle cell maturation and inhibition of neutrophil apoptosis. It activates insulin receptor and has insulin-mimetic effects, lowering blood glucose and improving insulin sensitivity. The protein is highly expressed in visceral fat and serum levels of the protein correlate with obesity.

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Molecular Weight: ~52kDa (SDS-PAGE)

UniProt: [P43490](#)

## Application Details

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Application Notes: Optimal working dilution should be determined by the investigator.

Comment: Shows adipogenic effects in stimulated differentiating 3T3-L1 cells.

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Reconstitute in distilled water.

Concentration: Lot specific

Buffer: Lyophilized. Salt-free.

Storage: 4 °C, -20 °C

Storage Comment: Short Term Storage: +4°C  
Long Term Storage: -20°C  
Working aliquots are stable for up to 3 months when stored at -20°C.

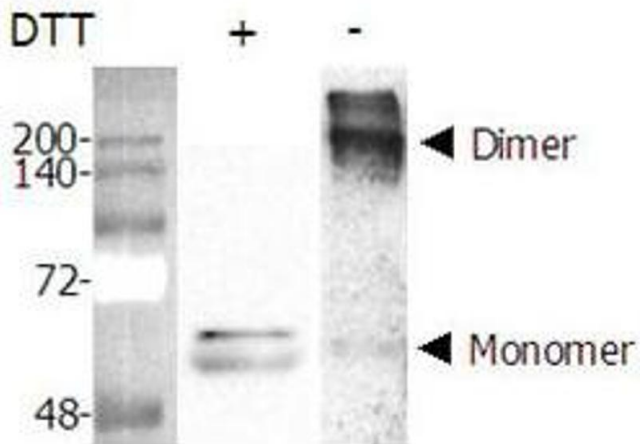
Expiry Date: 3 months

## Publications

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Product cited in: Geng, White, Paine, Snead: "Protein Interaction between Ameloblastin and Proteasome Subunit ? Type 3 Can Facilitate Redistribution of Ameloblastin Domains within Forming Enamel." in: **The**

## Images



## Western Blotting

**Image 1.** Dimer formation of recombinant Nampt (Visfatin, PBEF) . Purified Nampt (Visfatin, PBEF) was separated by SDS-PAGE and Western blot analysis was performed using rabbit anti-Nampt polyclonal antibody . In the absence of DTT, Nampt (visfatin, PBEF) formed a homodimer, a homomultimer.