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# NAMPT Protein (AA 1-491) (DYKDDDDK Tag)





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# Overview

Quantity:	10 μg	
Target:	NAMPT	
Protein Characteristics:	AA 1-491	
Origin:	Rat	
Source:	HEK-293 Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This NAMPT protein is labelled with DYKDDDDK Tag.	
Application:	SDS-PAGE (SDS)	

# **Product Details**

Cross-Reactivity:	Rat (Rattus)			
Characteristics:	Rat Nampt (visfatin/PBEF) (aa 1-491) is fused at the N-terminus to a FLAG®-tag.			
Purity:	>90 % (SDS-PAGE)			
Sterility:	0.2 µm filtered			
Endotoxin Level:	<0.1EU/µg purified protein (LAL test, Lonza).			

# Target Details

Target:	NAMPT	
Alternative Name:	Nampt (Visfatin/PBEF) (NAMPT Products)	
Background:	Nicotinamide phosphoribosyltransferase (Nampt, pre-B cell colony-enhancing factor, PBEF,	

Visfatin) is an 52 kDa adipokine secreted by adipose tissue and involved in the biosynthesis of nicotinamide adenine dinucleotide (NAD+). 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+ 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.

Molecular Weight:

~60kDa (SDS-PAGE)

UniProt:

Q80Z29

# **Application Details**

Application Notes:

Optimal working dilution should be determined by the investigator.

Restrictions:

For Research Use only

## Handling

Fc	rr	η	at	

Liquid

Concentration:

Lot specific

Buffer:

0.2µm-filtered solution in PBS, pH 7.2.

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  $^{\circ}\text{C}.$ 

**Expiry Date:** 

3 months

### **Publications**

Product cited in:

Richter, Richter, Mehta, Gribble, Sutherland-Smith, Stowell, Print, Ronimus, Wilson: "Expression and role in glycolysis of human ADP-dependent glucokinase." in: **Molecular and cellular biochemistry**, Vol. 364, Issue 1-2, pp. 131-45, (2012) (PubMed).