

NAMPT Protein, Mouse, Recombinant

General Information

Synonyms:	Nampt;NAMPRtase;Nicotinamide phosphoribosyltransferase;Pbef1;Pre-B-cell colony-enhancing factor 1 homolog (PBEF);Visfatin
Protein Construction:	1-491 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q99KQ4
Molecular Weight:	55.6 kDa (predicted)
AA Sequence:	MNAAAEAEFNILLATDSYKVTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKYEETVFYGLQYILNKYLKGV VTKEKIQEAKEVYREHFQDDVFNERGWNYLEKYDGHLPKAVPEGSVIPRGNVLFVENTDPECYWLTNW IETILVQSWYPITVATNSREQKILAKYLLETSGNLDGLEYKLHDFGYRGVSSQETAGIGASAHLVNFKGDTVA GIALIKKYYGTKDPVPGYSVPAAEHSTITAWGKDHEKDAFEHIVTQFSSVPVSVSDSYDIYNACEKIWGDLR HLIVSRSTEAPLIIRPDSGNPLDTVLKVLKVDILGKFPVTENSKGYKLLPPYLRVIQGDGVDINTLQEIVEGMKQKK WSIENVFSGGALLQKLTRDLLNCSFKSYVVTNGLGVNVFKDPVADPNKRSKKGRLSLHRTPAGNFVTLLE GKGDLEEYGHDLHTVFKNGKVTKSYSFDEVRKNAQLNIEQDVAPH

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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. Catalyzes the condensation of nicotinamide with 5-phosphoribosyl-1-pyrophosphate to yield nicotinamide mononucleotide, an intermediate in the biosynthesis of NAD. It is the rate limiting component in the mammalian NAD biosynthesis pathway. 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-ARNTL/BMAL1 heterodimer from NAD-dependent SIRT1-mediated suppression.

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