

# Recombinant Full Length Rat Nampt Protein, N-Flag-tagged

**Cat. No.** Nampt-12RFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Rat Nampt Protein, fused to Flag-tag at N-terminus, was expressed in HEK293T.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 1-491 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | Enables several functions, including cytokine activity; identical protein binding activity; and nicotinamide phosphoribosyltransferase activity. Involved in several processes, including cellular response to amyloid-beta; cellular response to oxygen-glucose deprivation; and negative regulation of cellular senescence. Located in cytoplasm; nucleus; and plasma membrane. Used to study middle cerebral artery infarction and transient cerebral ischemia. Biomarker of kidney failure; periodontitis; and pulmonary hypertension. Human ortholog(s) of this gene implicated in transient cerebral ischemia. Orthologous to human NAMPT (nicotinamide phosphoribosyltransferase). |
| <b>Form</b>             | Liquid. 0.2µm-filtered solution in PBS, pH 7.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | ~60kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Endotoxin</b>        | <0.1EU/µg purified protein (LAL test; Lonza).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>           | ≥90% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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|                            |                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>             | Short Term Storage: 4 centigrade.<br>Long Term Storage: -20 centigrade.                                                                                                              |
| <b>Concentration</b>       | 0.35mg/ml                                                                                                                                                                            |
| <b>Shipping</b>            | BLUE ICE                                                                                                                                                                             |
| <b>Handling Advice</b>     | After opening, prepare aliquots and store at -20 centigrade.<br>Avoid freeze/thaw cycles.<br>For maximum product recovery after thawing, centrifuge the vial before opening the cap. |
| <b>Use/Stability</b>       | Stable for at least 6 months after receipt when stored at -20 centigrade.<br>Working aliquots are stable for up to 3 months when stored at -20 centigrade.                           |
| <b>N-terminal Sequence</b> | Analysis                                                                                                                                                                             |

## GENE INFORMATION

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Nampt nicotinamide phosphoribosyltransferase [ Rattus norvegicus (Norway rat) ]                         |
| <b>Official Symbol</b> | Nampt                                                                                                   |
| <b>Synonyms</b>        | Pbef; Pbef1; Pre-B Cell Colony Enhancing Factor 1; PBEF1; Nicotinamide Phosphoribosyltransferase; Nampt |
| <b>Gene ID</b>         | 297508                                                                                                  |
| <b>mRNA Refseq</b>     | NM_177928.3                                                                                             |
| <b>Protein Refseq</b>  | NP_808789.1                                                                                             |

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UniProt ID

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