

ENPP-3 Protein, Rhesus Macaque (sf9, His)

Cat. No.:	HY-P77357
Synonyms:	Ectonucleotide pyrophosphatase/phosphodiesterase family member 3; NPP3; PD-Ibeta; PDNP3
Species:	Rhesus Macaque
Source:	Sf9 insect cells
Accession:	XP_001103528 (R46-I874)
Gene ID:	710232
Molecular Weight:	Approximately 97.2 kDa.

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 20 mM Tris, 500 mM NaCl, 10% Glycerol, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	ENPP-3, a hydrolase, exhibits the ability to metabolize various extracellular nucleotides, including ATP, GTP, UTP, and CTP. This enzymatic activity plays a crucial role in modulating immune responses, particularly during inflammation and the chronic phases of allergic reactions. ENPP-3 acts by eliminating extracellular ATP, a signaling molecule that activates basophils and mast cells, leading to the release of inflammatory cytokines. Moreover, in the lumen of the small intestine, ENPP-3 metabolizes extracellular ATP, thereby preventing ATP-induced apoptosis of intestinal plasmacytoid dendritic cells. Besides its involvement in nucleotide metabolism, ENPP-3 also exhibits alkaline phosphodiesterase activity, adding to its multifaceted role in cellular processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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