

ENPP-3 Protein, Human (828a.a, HEK293, His-Avi)

Cat. No.:	HY-P77924
Synonyms:	E-NPP 3; NPP3; PD-Ibeta; NPPase; ENPP3; PDNP3; CD203c; B10; gp130RB13-6
Species:	Human
Source:	HEK293
Accession:	O14638 (L48-I875)
Gene ID:	5169
Molecular Weight:	110-120 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris, 150 mM NaCl, PH7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

ENPP3, a hydrolase, plays a pivotal role in metabolizing extracellular nucleotides, encompassing ATP, GTP, UTP, and CTP. This enzymatic activity is instrumental in modulating immune responses, particularly in the regulation of mast cell and basophil reactions during inflammation and chronic allergic phases. ENPP3 achieves this by eliminating extracellular ATP, a signaling molecule that activates basophils and mast cells, subsequently triggering the release of inflammatory cytokines. Furthermore, within the small intestine's lumen, ENPP3 metabolizes extracellular ATP, effectively preventing ATP-induced apoptosis in intestinal plasmacytoid dendritic cells. Alongside its involvement in nucleotide metabolism, ENPP3 exhibits alkaline phosphodiesterase activity, adding to its diverse functions in cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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