

ENPP3 Protein, *Macaca fascicularis* (HEK293, His)

Cat. No.:	HY-P700438
Synonyms:	E-NPP 3; NPP3; PD-Ibeta; NPPase; ENPP3; PDNP3; CD203c; B10; gp130RB13-6
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A2K5TKP4 (R46-I874)
Gene ID:	/
Molecular Weight:	Approximately 120 kDa

PROPERTIES

AA Sequence

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RKLEKQGSCR   KKCFDASFRG   LENCRCDVAC   EDRGDCCWDF
EDTCVESTRI   WTCNKFRCGE   TRLEASLCSC   SDDCLQRKDC
CADYKSVCQG   ETSWLEENCD   TAQQSQCP EG   FDLPPVILFS
MDGFRAEYLY   TWDTLMPNIN   KLKTCGIHSK   YMRAMYPTKT
FPNHYTIVTG   LYPESHGIIID  NNMYDVNLNK   NFSLSSEEQN
NPAAWHGQPM   WLTAMYQGLK   AATYFWPGSE   VAINGSFPSI
YMPYNRSVPY   EERISTLLKW   LDLPKAERPS   FYTMYFEEDP
SSGHASGPVS   ARVIKALQVV   DHAFGMLMEG   LKQRNLHNCV
NIIILLADHGM  DQTYCNKMEY   MTDYFPRINF   YMYEGPAPRI
RALNVPHDFF   SFNSEEIVRN   LSCRKPDQHF   KPYLTPDLPK
RLHYAKNVR I   DKVHLFVDPQ   WLA VGSKSNT  NCGGGNHGYN
NEFRSMEAIF   LAHGPSFKEK   TEVEPFENIE   VYNLMCDLLR
IQPAPNNGTR   GSLNHL LKVP   FYKPSHAEV   SKFSVCGFAN
PLPTDNL SCL   CPHLQNSIQL   EQVNQMLNLT   QEEITATVKV
NLPFGRPRVL   QKNVDNCLLY   HREYVSGFGK   AMRMPMWSSY
TVPQLGDTSP   LPPTVPDCLR   ADVRVPPSES   QKCSFYLADE
NITHGFLYPP   AINRTSDSQY   DALIMSNLVP   MYEEFRKMWD
YFHSVLLIKH   ATERNGVNVV   SGPIFDYNYD   GHFDAPEEIT
KHIANTDIPI   PTHYFVVLTS   CKNKSHTPEN   CPGWLDVLPF
IIPH RPTNVE   SCPEGKPEAL   WVEERLTAHI   ARVRDVELLT
GLDFYQDKAQ   PVSEILQLKT   YLPTFETTI

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Biological Activity

Measured by its binding ability in a functional ELISA. Immobilized *Macaca fascicularis* ENPP3 at 2 µg/mL can bind Anti-ENPP3 recombinant antibody, the EC₅₀ is 1.438-4.657 ng/mL.

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/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

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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA