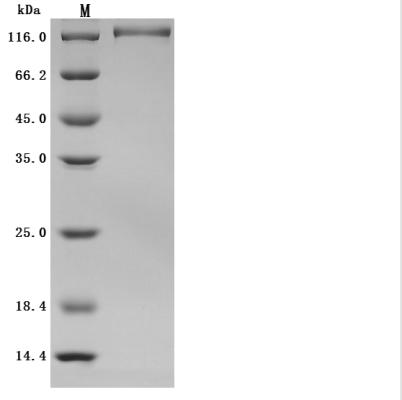
Recombinant Macaca fascicularis Ectonucleotide pyrophosphatase/phosphodiesterase 3 (ENPP3), partial (Active)

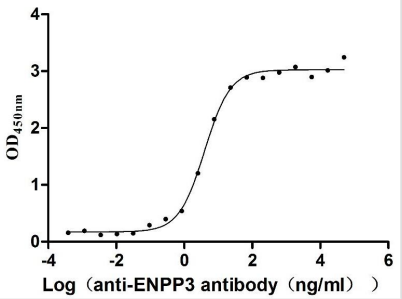
Product Code	CSB-MP4278MOV
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	A0A2K5TKP4
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 μm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Product Type	Recombinant Protein
Immunogen Species	Macaca fascicularis (Crab-eating macaque) (Cynomolgus monkey)
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 (CSB-RA007681MA1HU), the EC_{50} is 3.313-4.724 ng/mL.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	RKLEKQGSCRKKCFDASFRGLENCRCDVACEDRGDCCWDFEDTCVESTRIW TCNKFRCGETRLEASLCSCSDDCLQRKDCCADYKSVCQGETSWLEENCDTA QQSQCPEGFDLPPVILFSMDGFRAEYLYTWDTLMPNINKLKTCGIHSKYMRAM YPTKTFPNHYTIVTGLYPESHGIIDNNMYDVNLNKNFSLSSEEQNNPAWWHGQ PMWLTAMYQGLKAATYFWPGSEVAINGSFPSIYMPYNRSVPYEERISTLLKWL DLPKAERPSFYTMYFEEPDSSGHASGPVSARVIKALQVVDHAFGMLMEGLKQ RNLHNCVNIILLADHGMDQTYCNKMEYMTDYFPRINFYMYEGPAPRIRALNVP HDFFSFNSEEIVRNLSCRKPDQHFKPYLTPDLPKRLHYAKNVRIDKVHLFVDPQ WLAVGSKSNTNCGGGNHGYNNEFRSMEAIFLAHGPSFKEKTEVEPFENIEVY NLMCDLLRIQPAPNNGTRGSLNHLLKVPFYKPSHAEEVSKFSVCGFANPLPTD NLSCLCPHLQNSIQLEQVNQMLNLTQEEITATVKVNLPFGRPRVLQKNVDNCL LYHREYVSGFGKAMRMPMWSSYTVPQLGDTSPLPPTVPDCLRADVRVPPSE SQKCSFYLADENITHGFLYPPAINRTSDSQYDALIMSNLVPMYEEFRKMWDYF HSVLLIKHATERNGVNVVSGPIFDYNYDGHFDAPEEITKHIANTDIPIPTHYFVVL TSCKNKSHTPENCPGWLDVLPFIIPHRPTNVESCPEGKPEALWVEERLTAHIA RVRDVELLTGLDFYQDKAQPVSEILQLKTYLPTFETTI
Lead Time	Basically, we can dispatch the products out in 3-7 working days after receiving your orders. Delivery time may differ from different purchasing way or location, please kindly consult your local distributors for specific delivery time.
Source	Mammalian cell
Gene Names	ENPP3

Expression Region	46-874aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged
Mol. Weight	98.7 kDa
Protein Description	Partial

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity
Measured by its binding ability in a functional ELISA. Immobilized Macaca fascicularis ENPP3 at 2 μg/ml can bind Anti-ENPP3 recombinant antibody (CSB-RA007681MA1HU), the EC_{50} is 3.313-4.724 ng/mL.

Description

This Recombinant Macaca fascicularis ENPP3 was produced in mammalian cell, where the gene sequence encoding Macaca fascicularis ENPP3 (46-874aa) was expressed with the N-terminal 10xHis tag. The purity of this ENPP3 protein was greater than 95% by SDS-PAGE. The activity was measured by its binding ability in a functional ELISA.

ENPP3 gene encodes a type II transmembrane protein, which is a multifunctional extracellular nucleotide hydrolase whose main function is to metabolize extracellular nucleotides, including ATP, GTP, UTP and CTP. Restricts mast cell and basophil responses by eliminating extracellular ATP during inflammation and in the chronic phase of allergic responses. ATP, acting as a signaling molecule, activates basophils and mast cells and induces the release of inflammatory cytokines. ENPP3 metabolizes extracellular ATP in the lumen of the small intestine, preventing ATP-induced apoptosis of intestinal plasmacytoid dendritic cells, and ENPP3 also has alkaline phosphodiesterase activity.

Endotoxin	Less than 1.0 EU/ug as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20?/-80?. Our default final concentration of glycerol is 50%. Customers could use it as reference.