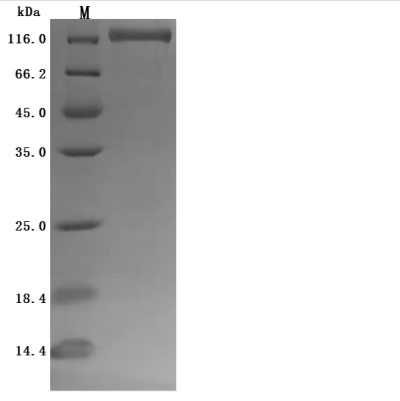
Recombinant Human Ectonucleotide pyrophosphatase/phosphodiesterase family member 3 (ENPP3), partial (Active)

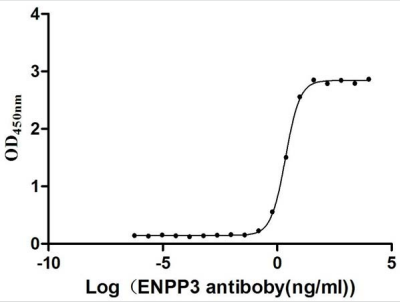
Product Code	CSB-MP007681HU
Abbreviation	Recombinant Human ENPP3 protein, partial (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O14638
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	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human ENPP3 at 2 μg/mL can bind anti-ENPP3 recombinant antibody (CSB-RA007681MA1HU), the EC_{50} is 2.151-2.492 ng/mL.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	LEKQGSCRKKCFDASFRGLENCRCDVACKDRGDCCWDFEDTCVESTRIWMC NKFRCGETRLEASLCSCSDDCLQRKDCCADYKSVCQGETSWLEENCDTAQQ SQCPEGFDLPPVILFSMDGFRAEYLYTWDTLMPNINKLKTCGIHSKYMRAMYP TKTFPNHYTIVTGLYPESHGIIDNNMYDVNLNKNFSLSSKEQNNPAWWHGQP MWLTAMYQGLKAATYFWPGSEVAINGSFPSIYMPYNGSVPFEERISTLLKWLD LPKAERPRFYTMYFEEPDSSGHAGGPVSARVIKALQVVDHAFGMLMEGLKQR NLHNCVNIILLADHGMDQTYCNKMEYMTDYFPRINFFYMYEGPAPRIRAHNIPH DFFSFNSEEIVRNLSCRKPDQHFKPYLTPDLPKRLHYAKNVRIDKVHLFVDQQ WLAVRSKSNTNCGGGNHGYNNEFRSMEAIFLAHGPSFKEKTEVEPFENIEVY NLMCDLLRIQPAPNNGTHGSLNHLLKVPFYEPSHAEEVSKFSVCGFANPLPTE SLDCFCPHLQNSTQLEQVNQMLNLTQEEITATVKVNLPFGRPRVLQKNVDHCL LYHREYVSGFGKAMRMPMWSSYTVPQLGDTSPLPPTVPDCLRADVRVPPSE SQKCSFYLADKNITHGFLYPPASNRTSDSQYDALITSNLVPMYEEFRKMWDYF HSVLLIKHATERNGVNVVSGPIFDYNYDGHFDAPDEITKHLANTDVPIPTHYFVV LTSCKNKSHTPENCPGWLDVLPFIIPHRPTNVESCPEGKPEALWVEERFTAHIA RVRDVELLTGLDFYQDKVQPVSEILQLKTYLPTFETTI
Source	Mammalian cell
Target Names	ENPP3
Expression Region	48-875aa

Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 10xHis-tagged
Mol. Weight	97.8 kDa
Protein Length	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 Human ENPP3 at 2 μg/ml can bind anti-ENPP3 recombinant antibody (CSB-RA007681MA1HU), the EC_{50} is 2.151-2.492 ng/mL.

Description

This Human ENPP3 recombinant protein was produced in mammalian cell, where the gene sequence encoding human ENPP3 (48-875aa) was expressed with the C-terminal 10xHis tag. The purity of this ENPP3 protein was greater than 95% by SDS-PAGE. The activity was validated.

ENPP3 (Ectonucleotide pyrophosphatase/phosphodiesterase family member 3) is a type II transmembrane protein, which is involved in the hydrolysis of extracellular nucleotides and has ATPase and ATP pyrophosphatase activities. ENPP3 was originally identified as a regulator of purinergic signaling with a role in inflammation and allergic responses, while ENPP3 protein could serve as a potential biomarker of allergen sensitivity. ENPP3 is mainly present on epithelial and mucosal surfaces and is highly expressed on activated basophils. ENPP3 has been detected in mastocytosis, acute basophilic leukemia, tumor mast cells of cholangiomas, and some other cancer samples. ENPP3 is a multifunctional extracellular nucleotide hydrolase whose main function is to metabolize extracellular nucleotides, including ATP, GTP, UTP and CTP.

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°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	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.