Product Data Sheet

Product Name:	ENPP1 Human
Cat. No.:	GP21604
Batch No.:	1

Product Data

Purity	>98%	Source	HEK 293.
Phycical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Ectonucleotide pyrophosphatase/phosphodiesterase family member 1; E-NPP 1; Membrane component chromosome 6 surface marker 1; Phosphodiesterase I/nucleotide pyrophosphatase 1; Plasma-cell membrane glycoprotein PC-1; ENPP1; M6S1; NPPS; PC1; PDNP1; NPP1; PC-1; PCA1; ARHR2; COLED.		
Amino Acid Sequence	ASKPSCAKEV KSCKGRCFER TFGNCRCDAA CVELGNCCLD YQETCIEPEH IWTCNKFRCG EKRLTRSLCA CSDDCKDKGD CCINYSSVCQ GEKSWVEEPC ESINEPQCPA GFETPPTLLF SLDGFRAEYL HTWGGLLPVI SKLKKCGTYT KNMRPVYPTK TFPNHYSIVT GLYPESHGII DNKMYDPKMN ASFSLKSKEK FNPEWYKGEP IWVTAKYQGL KSGTFFWPGS DVEINGIFPD IYKMYNGSVP FEERILAVLQ WLQLPKDERP HFYTLYLEEP DSSGHSYGPV SSEVIKALQR VDGMVGMLMD GLKELNLHRC LNLILISDHG MEQGSCKKYI YLNKYLGDVK NIKVIYGPAA RLRPSDVPDK YYSFNYEGIA RNLSCREPNQ HFKPYLKHFL PKRLHFAKSD RIEPLTFYLD PQWQLALNPS ERKYCGSGFH GSDNVFSNMQ ALFVGYGPGF KHGIEADTFE NIEVYNLMCD LLNLTPAPNN GTHGSLNHLL KNPVYTPKHP KEVHPLVQCP FTRNPRDNLG CSCNPSILPI EDFQTQFNLT VAEEKIIKHE TLPYGRPRVL QKENTICLLS QHQFMSGYSQ DILMPLWTSY TVDRNDSFST EDFSNCLYQD FRIPLSPVHK CSFYKNNTKV SYGFLSPPQL NKNSSGIYSE ALLTTNIVPM YQSFQVIWRY FHDTLLRKYA EERNGVNVVS GPVFDFDYDG RCDSLENLRQ KRRVIRNQEI LIPTHFFIVL TSCKDTSQTP LHCENLDTLA FILPHRTDNS ESCVHGKHDS SWVEELLMLH RARITDVEHI TGLSFYQQRK EPVSDILKLK THLPTFSQED GPKLHHHHHH.		

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Solubility	It is recommended to add deionized water to a working concentration of 0.5mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Formulation	Filtered (0.4μm) and lyophilized from 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl, pH 7.4.

Introduction

Ectonucleotide Pyrophosphatase (ENPP1) belongs to the ecto-nucleotide pyrophosphatase/phosphodiesterase (ENPP) family. ENPP1 is a type II transmembrane glycoprotein comprised of 2 identical disulfide-bonded subunits. The ENPP1 protein has broad specificity and cleaves various substrates, including phosphodiester bonds of nucleotides and nucleotide sugars and pyrophosphate bonds of nucleotides and nucleotide sugars. The ENPP1 protein can hydrolyze nucleoside 5' triphosphates to their corresponding monophosphates and it may also hydrolyze diadenosine polyphosphates. ENPP1 gene mutations are linked with 'idiopathic' infantile arterial calcification and ossification of the posterior longitudinal ligament of the spine (OPLL).

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time.

Background

ENPP1 Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (a.a 98-925) containing a total of 840 amino acids, having a molecular mass of 96.5kDa (calculated) though it migrates at approximately 110kDa on SDS PAGE, the ENPP1 is also composed of a 2 a.a N-terminal linker, a 4 a.a C-terminal linker and fused to a 6 a.a His tag at C-Terminus.The Human ENPP1 is purified by proprietary chromatographic techniques.

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