BioVendor - Laboratorní medicína a.s.
Karásek 1767/1
621 00 Brno-Řečkovice a Mokrá Hora

Date of issue: 16.11.2018

PRODUCT DATASHEET

ENPP1 Protein Human HEK293

Cat. No.: RD172124100
Type: Recombinant protein
Size: 0.1 mg
Source: HEK293
Species: Human

Description

Total 840 AA, UniProt P22413 (Lys98-Asp925). MW: 96.5 kDa (calculated), migrates at ~ 110 kDa on SDS PAGE; N-terminal linker (2 extra AA), C-terminal linker (4 extra AA) and C-terminal His-tag (6 extra AA). Protein identity confirmed by LC-MS/MS.

Other names

Ectonucleotide pyrophosphatase/phosphodiesterase family member 1, E-NPP 1, Membrane component chromosome 6 surface marker 1, Phosphodiesterase I/nucleotide pyrophosphatase 1, NPP-1, Plasma-cell membrane glycoprotein, PC-1

Introduction to the molecule

Research topic

Bone and cartilage metabolism, Diabetology - Other Relevant Products, Energy metabolism and body weight regulation

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

Purity

Purity as determined by densitometric image analysis: >95%

Endotoxin

<1.0 EU/µg

Formulation:

Filtered (0.4 µm) and lyophilized in 0.5 mg/mL in 0.05 M phosphate buffer, 0.075 M NaCl, pH 7.4

Reconstituion:

Add 200ul of deionized water to prepare a working stock solution of 0.5 mg/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.

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Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store the lyophilized protein at –80 °C. Lyophilized protein remains stable until the expiry date when stored at –80 °C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at –80 °C for long term storage. Reconstituted protein can be stored at 4 °C for a week.

Quality control

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

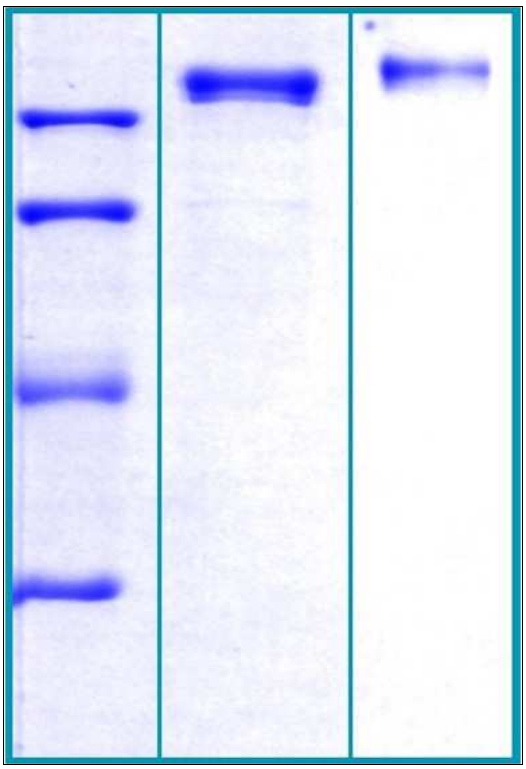
LAL to determine quantity of endotoxin.

Applications

Cell culture and/or animal studies, ELISA, Western blotting

Note

This product is intended for research use only.



10% SDS-PAGE separation of Human ENPP-1:
1. M.W. marker – 97, 66, 45, 31 kDa
2. reduced and boiled sample, 2.5µg / lane
3. non-reduced and non-boiled sample, 2.5µg / lane

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