

Recombinant Full Length Human ENPP1 Protein, GST-tagged

Cat. No. ENPP1-4319HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ENPP1 full-length ORF (NP_006199.1, 1 a.a. - 873 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	873 amino acids
Description	This gene is a member of the ecto-nucleotide pyrophosphatase/phosphodiesterase (ENPP) family. The encoded protein is a type II transmembrane glycoprotein comprising two identical disulfide-bonded subunits. This protein has broad specificity and cleaves a variety of substrates, including phosphodiester bonds of nucleotides and nucleotide sugars and pyrophosphate bonds of nucleotides and nucleotide sugars. This protein may function to hydrolyze nucleoside 5' triphosphates to their corresponding monophosphates and may also hydrolyze diadenosine polyphosphates. Mutations in this gene have been associated with 'idiopathic' infantile arterial calcification, ossification of the posterior longitudinal ligament of the spine (OPLL), and insulin resistance. [provided by RefSeq, Jul 2008]
Molecular Mass	126.3 kDa
AA Sequence	MDVGEEPLEKAARARTAKDPNTYKVLVLSVLCVLTTLTGCFGLKPSCAKEVKSCG RCFERTFGNCRCDAAACVELGNCCLDYQETCIEPEHIWTCNKFRCGEKRLTRSLCAC SDDCKDKGDCCINYSSVCQGEKSWVEEPCESINEPQCPAGFETPPTLLFSLDGFRA

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EYLHTWGGLLPVISKLKKCGTYTKNMRPVYPTKTFPNHYSIVTGLYPESHGIIDNKMY
DPKMNASFSLKSKEKFNPEWYKGEPWVTAKYQGLKSGTFFWPGSDVEINGIFPDIY
KMYNGSVPFEERILAVLQWLQLPKDERPHFYTLYLEEPDSSGHSYGPVSSEVIKALQ
RVDGMVGMMLDGLKELNLHRCNLILISDHGMEQGSCCKYIYLNKYLGDVKNIKVIY
GPAARLRPSDVPDKYYSFNYEGIARNLSCREPNQHFKPYLKHFLPKRLHFAKSDRIE
PLTFYLDPQWQLALNPSEKCYCGSGFHGSDNVFSNMQALFVGYPGPGFKHGIEADT
FENIEVYNLMCDLLNLTPAPNNGTHGSLNHLLKNPVYTPKHPKEVHPLVQCPFTRNP
RDNLGCSCNPSILPIEDFQTQFNLTVAEEKIHKHETLPYGRPRVLQKENTICLLSQHQF
MSGYSQDILMPLWTSYTVDRNDSFSTEDFSNCLYQDFRIPLSPVHKCSFYKNNTKV
SYGFLSPPQLNKNSSGIYSEALLTTNIVPMYQSFQVIWRYFHDTLRLKYAEERNGVN
VVSGPVDFDFDYDGRCDLENLRQKRRVIRNQEILIPTHFFIVLTSCKDTSQTPLHCEN
LDTLAFILPHRTDNSESCVHGKHDSSWVEELMLHRARITDVEHITGLSFYQQRKEP
VSDILKLKTHLPTFSQED

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION**Gene Name**

ENPP1 ectonucleotide pyrophosphatase/phosphodiesterase 1 [Homo sapiens]

Official Symbol

ENPP1

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Synonyms	ENPP1; ectonucleotide pyrophosphatase/phosphodiesterase 1; M6S1, NPPS, PDNP1; ectonucleotide pyrophosphatase/phosphodiesterase family member 1; PC 1; PCA1; E-NPP 1; Ly-41 antigen; alkaline phosphodiesterase 1; plasma-cell membrane glycoprotein 1; plasma-cell membrane glycoprotein PC-1; membrane component chromosome 6 surface marker 1; phosphodiesterase I/nucleotide pyrophosphatase 1; membrane component, chromosome 6, surface marker 1; M6S1; NPP1; NPPS; PC-1; ARHR2; PDNP1;
Gene ID	5167
mRNA Refseq	NM_006208
Protein Refseq	NP_006199
MIM	173335
UniProt ID	P22413