

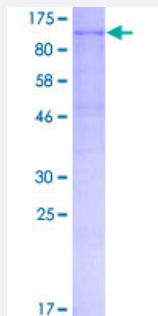
Full-Length

ENPP1 (Human) Recombinant Protein (P01)

Catalog # H00005167-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ENPP1 full-length ORF (NP_006199.1, 1 a.a. - 873 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MDVGEEPLEKAARARTAKDPNTYKVLVLVSLVLCVLTTLGCFGLKPSCAKEVKSCCKGRCFERTF
GNCRCDAACVELGNCCLDYQETCIEPEHWTCKNFRGCEKRLTRSLCACSDDCCKDKGDCCINYS
SVCQGEKSWVEEPCESINEPQCPAGFETPPTLLFSLDGFRAEYLHTWGGLLPVISKLKKCGTYTK
NMRPVYPTKTFPNHYSVTGLYPESHGIIDNKMYDPKMNASFSLKSKEKFNPWEYKGEPIWVTAKY
QGLKSGTFFWPGSDVEINGIFPDYKMYNGSVPFEEILAVLQWLQLPKDERPHFYTYLEEDSS
GHSYGPVSSEVIKALQRVDGMVGMMDGLKELNLHRCNLILISDHGMEQGSCCKYYLNKYLGDV
KNIKVIYGPAARLRPSDVPDKYYSFNIEGIARNLSCREPNQHFKPYLKHFLPKRLHFAKSDRIEPLT
FYLDPPQWQLALNPSEKRYCGSGFHGSDNVFSNMQALFVGYPGFKGIEADTFENIEVYNLMCD
LLNLTPAPNNGTHGSLNHLKPNVYTPKHPKEVHPLVQCPFTRNPRDNLGCSCNPSILPIEDFQQT
FNLTVAEEKIHKHETLPYGRPRVLQKENTICLLSQHQFMSGYSQDILMPLWTSYTVDRNDSFSTEDF
SNCLYQDFRIPLSPVHKCSFYKNNTKVSYGFLSPPQLNKNSSGIYSEALLTTNIPMYQSFQVIWRY
FHDTLRKYAEERNGVNVVSGPVDFDFDYGRCDSLENLRQKRRVIRNQEILIPTHFFVLTSCKDTS
QTPLHCENLDTLAFILPHRTDNSESCVHGKHDSSWVEELMLHRARITDVEHITGLSFYQQRKEPV
SDILKLKTHLPTFSQED

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

126.3

Interspecies Antigen Sequence

Mouse (81); Rat (80)

Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — ENPP1

Entrez GeneID	5167
GeneBank Accession#	NM_006208.1
Protein Accession#	NP_006199.1
Gene Name	ENPP1
Gene Alias	M6S1, NPP1, NPPS, PC-1, PCA1, PDNP1
Gene Description	ectonucleotide pyrophosphatase/phosphodiesterase 1
Omim ID	125853 173335 208000 601665 602475
Gene Ontology	Hyperlink

Gene Summary

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]

Other Designations

Ly-41 antigen|OTTHUMP00000043194|alkaline phosphodiesterase 1|membrane component, chromosome 6, surface marker 1|phosphodiesterase I/nucleotide pyrophosphatase 1|plasma-cell membrane glycoprotein 1

Pathway

- [Metabolic pathways](#)
- [Nicotinate and nicotinamide metabolism](#)
- [Pantothenate and CoA biosynthesis](#)
- [Purine metabolism](#)
- [Riboflavin metabolism](#)
- [Starch and sucrose metabolism](#)

Disease

- [Albuminuria](#)
- [Alzheimer disease](#)
- [Aortic Diseases](#)
- [Arteriosclerosis](#)
- [Atherosclerosis](#)
- [Body Weight](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)

- [Chondrocalcinosis](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Progression](#)
- [Edema](#)
- [Fatty Liver](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Glucose Intolerance](#)
- [Hepatitis C](#)
- [Hyperglycemia](#)
- [Hyperinsulinism](#)
- [Hyperlipidemias](#)
- [Hypertension](#)
- [Hypertriglyceridemia](#)
- [Hypertrophy](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Metabolic Diseases](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Myocardial Ischemia](#)
- [Neoplasms](#)

- [Obesity](#)
- [Ossification of Posterior Longitudinal Ligament](#)
- [Osteoarthritis](#)
- [Osteoporosis](#)
- [Overweight](#)
- [Peripheral Vascular Diseases](#)
- [Polycystic Ovary Syndrome](#)
- [Pre-Eclampsia](#)
- [Proteinuria](#)
- [Psychotic Disorders](#)
- [Renal Insufficiency](#)
- [Schizophrenia](#)
- [Urinary Bladder Neoplasms](#)
- [Viremia](#)
- [Werner syndrome](#)