# Active Recombinant Human ENPP1&ENPP2 Protein, His-tagged

**Cat. No.** ENPP1&ENPP2-3892H **Lot. No.** (See product label)

## SPECIFICATION

| | |
|---|---|
| **Product Overview** | Recombinant Human ENPP-2 (Asp49-Trp144, Accession # Q13822), ENPP-1 (Val191-Leu591, Accession # P22413) and ENPP-2 (Asn532-Ile863, Accession # Q13822) protein with a His tag at N-terminus was expressed in Mouse myeloma cell line. |
| **Species** | Human |
| **Source** | Mammalian Cells |
| **ProteinLength** | 49-144;191-591;532-863 a.a. |
| **Description** | This gene is a member of the ecto-nucleotide pyrophosphatase/phosphodiesterase (E NPP) 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 monoph osphates and may also hydrolyze diadenosine polyphosphates. Mutations in this gen e have been associated with 'idiopathic' infantile arterial calcification, ossification of th e posterior longitudinal ligament of the spine (OPLL), and insulin resistance. |
| **Bio-activity** | Measured by its ability to hydrolyze thymidine 5'-monophosphate p-nitrophenyl ester. The specific activity is >35,000 pmol/min/μg, as measured under the described |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|---|---|
| | conditions. |
| **Molecular Mass** | 96 kDa |
| **Endotoxin** | <1.0 EU per 1 μg of the protein by the LAL method. |
| **Purity** | >95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining. |
| **Storage** | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>6 months from date of receipt, -20 to -70 centigrade as supplied.<br>3 months, -20 to -70 centigrade under sterile conditions after opening. |
| **Storage Buffer** | Supplied as a 0.2 μm filtered solution in Tris and NaCl. |

## GENE INFORMATION

| | |
|---|---|
| **Gene Name** | ENPP1 ectonucleotide pyrophosphatase/phosphodiesterase 1 [ Homo sapiens (human) ] |
| **Official Symbol** | ENPP1 |
| **Synonyms** | ectonucleotide pyrophosphatase/phosphodiesterase 1; E-NPP 1; ENPP1; ENPP-1; Ly-41 Antigen; M6S1; M6S1NPP1; Membrane component chromosome 6 surface marker 1; membrane component, chromosome 6, surface marker 1; NPP1; NPPS; NPPSalkaline phosphodiesterase 1; PC1; PC-1; PCA1; PCA1ARHR2; PDNP1; PDNP1ectonucleotide pyrophosphatase/phosphodiesterase family member 1; Phosphodiesterase I/nucleotide pyrophosphatase 1; plasma-cell membrane glycoprotein 1; Plasma-cell membrane glycoprotein PC-1; OI6; OI12; PEDF; EPC-1; PIG35 |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|---|---|
| **Gene ID** | 5167 |
| **mRNA Refseq** | NM_006208 |
| **Protein Refseq** | NP_006199 |
| **MIM** | 173335 |
| **UniProt ID** | P22413 |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA