

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 (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.
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

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	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. 6 months from date of receipt, -20 to -70 centigrade as supplied. 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

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

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