Recombinant Mouse Enpp1 Protein, Myc/DDK-tagged

Cat. No. Enpp1-2831M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ectonucleotide pyrophosphatase/phosphodiesterase 1 (Enpp1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene encodes a member of the nucleoside pyrophosphatase/phosphodiesterase family of enzymes that catalyzes the hydrolysis of pyrophosphate and phosphodiester bonds in nucleotide triphosphates and oligonucleotides, respectively, to generate nucl eoside 5'-monophosphates. The encoded protein is a type II transmembrane glycopro tein that negatively regulates bone mineralization. Mice harboring a nonsense mutatio n in this gene, termed tiptoe walking (ttw), exhibit ectopic ossification of the spinal liga ments. The encoded protein binds to the insulin receptor, inhibits downstream signali ng events and induces insulin resistance and glucose tolerance. This gene is located adjacent to a paralog on chromosome 10. Alternative splicing results in multiple trans cript variants encoding different isoforms.
Molecular Mass	103.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Enpp1 ectonucleotide pyrophosphatase/phosphodiesterase 1 [Mus musculus (house mouse)]
Official Symbol	Enpp1
Synonyms	ENPP1; ectonucleotide pyrophosphatase/phosphodiesterase 1; ectonucleotide pyrophosphatase/phosphodiesterase family member 1; E-NPP 1; tiptoe walking; lymphocyte antigen 41; plasma-cell membrane glycoprotein PC-1; phosphodiesterase I/nucleotide pyrophosphatase 1; 1 ectonucleotide pyrophosphatase/phosphodiesterase 1; Pca; ttw; twy; M6S1; NPP1; Npps; PC-1; Ly-41; Pca-1; Pdnp1; C76301; CD203c; E-NPP1; AI428932; 4833416E15Rik
Gene ID	18605
mRNA Refseq	NM_008813
Protein Refseq	NP_032839
UniProt ID	G3X9S2

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