

Ectonucleotide pyrophosphatase/phosphodiesterase family member 1

Catalog No: #AP78757

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Package Size: #AP78757-1 50ug #AP78757-2 100ug #AP78757-3 1mg

Description

Product Name	Ectonucleotide pyrophosphatase/phosphodiesterase family member 1
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% by SDS-PAGE
Species Reactivity	Human
Immunogen Description	191-591AA
Other Names	M6S1,NPPS,PC1,PDNP1,Membrane component chromosome 6 surface marker 1,Phosphodiesterase I/nucleotide pyrophosphatase 1,Plasma-cell membrane glycoprotein PC-1
Accession No.	P22413Gene name:ENPP1
Uniprot	P22413
GenID	5167;
Calculated MW	44.11
Tag Info	His
Formulation	50mM NaH ₂ PO ₄ , 500mM NaCl Buffer with 500mM Imidazole,10%glycerol(PH8.0)
Storage	Store at -20C. (Avoid repeated freezing and thawing.)Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

By generating PPI, plays a role in regulating pyrophosphate levels, and functions in bone mineralization and soft tissue calcification. PPI inhibits mineralization by binding to nascent hydroxyapatite (HA) crystals, thereby preventing further growth of these crystals. Preferentially hydrolyzes ATP, but can also hydrolyze other nucleoside 5' triphosphates such as GTP, CTP, TTP and UTP to their corresponding monophosphates with release of pyrophosphate and diadenosine polyphosphates, and also 3',5'-cAMP to AMP. May also be involved in the regulation of the availability of nucleotide sugars in the endoplasmic reticulum and Golgi, and the regulation of purinergic signaling. Appears to modulate insulin sensitivity and function.

References

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Note: This product is for in vitro research use only