

Active Recombinant Mouse Ectonucleotide Pyrophosphatase/Phosphodiesterase 7, His-tagged

Cat. No. Enpp7-452M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Enpp7 protein was expressed in Murine myeloma cell line. Ala22-Gln421, with a C terminal 10 His tag.
Species	Mouse
Source	Mammalian Cells
Protein Length	22-421 a.a.
Description	Enpp7 is expressed in the intestines and in bile. It shares 30-36% homology with the members of the nucleotide pyrophosphatase/phosphodiesterase (NPP) family while sharing no similarities with neutral or acid SMase. Its main function is the digestion of dietary sphingomyelin by hydrolyzing sphingomyelin into ceramide and phosphorylcholine. Enpp7 is reported to hydrolyse and inactivate platelet activating factor (PAF) by a phospholipase C type activity. Studies show a decrease in Enpp7 activity in human colorectal adenocarcinomas and human colorectal carcinomas, which indicate a potential role of Enpp7 in human colon cancer.
Form	Supplied as a 0.2 µm filtered solution in Tris and NaCl.
N-terminal Sequence	Ala22
Molecular Weight	47 kDa

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Activity	Measured by its ability to hydrolyze sphingomyelin to ceramide and phosphorylcholine. The phosphorylcholine is cleaved by rhAlkaline Phosphatase/ALPL and the phosphate is detected or measured by a Malachite Green Phosphate Detection Kit. The specific activity is > 13000 pmoles/min/μg, as measured under the described conditions. See Activity Assay Protocol.
Endotoxin Level	<1.0EU per 1 μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, 20 to 70°C as supplied. 3 months, 20 to 70°C under sterile conditions after opening.

GENE INFORMATION

Gene Name	Enpp7 ectonucleotide pyrophosphatase/phosphodiesterase 7 [<i>Mus musculus</i>]
Official Symbol	Enpp7
Synonyms	Enpp7; ectonucleotide pyrophosphatase/phosphodiesterase 7; Gm254; Alk-SMase; ectonucleotide pyrophosphatase/phosphodiesterase family member 7; EC 3.1.4.12
Gene ID	238011
mRNA Refseq	NM_001030291
Protein Refseq	NP_001025462
UniProt ID	Q3TIW9

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Chromosome Location	11
Pathway	Metabolic pathways;Sphingolipid metabolism
Function	NOT nucleotidaseactivity; sphingomyelin phosphodiesterase activity

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