Active Recombinant Human ENPP2, His-tagged

Cat. No. ENPP2-3123H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ENPP2/ATX (ectonucleotide pyrophosphatase-phosphodiesterase 2) is a single polypeptide chain with a 8His tag at the C-terminus. It contains 925 (915+10) amino acids, and having a predicted molecular mass of approximately 106.4kD and migrates in SDS-PAGE with an apparent molecular mass of 110kD.
Species	Human
Source	HEK293
Description	Autotaxin also known as ectonucleotide pyrophosphatase/phosphodiesterase family member 2 (E-NPP 2) is an enzyme that in humans is encoded by the ENPP2 gene.
Form	20mM Tris-Cl (pH7.9), 20% Glycerol, 100mM NaCl, 1mM DTT and 0.5mM EDTA
Bio-activity	ENPP2 protein stimulates the motility of tumor cells with angiogenic properties. It functions as a phosphodiesterase to cleave phosphodiester bonds and a phospholipase to catalyze production of lysophosphatidic acid (LPA). Recombinant human ENPP2 protein is ideal for the studies of its enzyme activity and other related function assays
AA Sequence	MARRSSFQSCQIISLFTFAVGVNICLGFTAHRIKRAEGWEEGPPTVLSDSPWTNISGS CKGRCFELQEAGPPDC RCDNLCKSYTSCCHDFDELCLKTARGWECTKDRCGEVR NEENACHCSEDCLARGDCCTNYQVVCKGESHWVDDD CEEIKAAECPAGFVRPPLII FSVDGFRASYMKKGSKVMPNIEKLRSCGTHSPYMRPVYPTKTFPNLYTLATGL YPE

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

	SHGIVGNSMYDPVFDATFHLRGREKFNHRWWGGQPLWITATKQGVKAGTFFWSVV IPHERRILTILQWLTL PDHERPSVYAFYSEQPDFSGHKYGPFGPEESSYGSPFTPAK RPKRKVAPKRRQERPVAPPKKRRRKIHRMDHY AAETRQDKMTNPLREIDKIVGQLM DGLKQLKLHRCVNVIFVGDHGMEDVTCDRTEFLSNYLTNVDDITLVPGTL GRIRSKF SNNAKYDPKAIIANLTCKKPDQHFKPYLKQHLPKRLHYANNRRIEDIHLLVERRWHVA RKPLDVYK KPSGKCFFQGDHGFDNKVNSMQTVFVGYGSTFKYKTKVPPFENIELYN VMCDLLGLKPAPNNGTHGSLNHLLRT NTFRPTMPEEVTRPNYPGIMYLQSDFDLGC TCDDKVEPKNKLDELNKRLHTKGSTEERHLLYGRPAVLYRTRY DILYHTDFESGYSE IFLMPLWTSYTVSKQAEVSSVPDHLTSCVRPDVRVSPSFSQNCLAYKNDKQMSYGF LFPP YLSSSPEAKYDAFLVTNMVPMYPAFKRVWNYFQRVLVKKYASERNGVNVISG PIFDYDYDGLHDTEDKIKQYV EGSSIPVPTHYYSIITSCLDFTQPADKCDGPLSVSSFI LPHRPDNEESCNSSEDESKWVEELMKMHTARVRDIE HLTSLDFFRKTSRSYPEILTL KTYLHTYESEIGGHHHHHHHH
Purity	≥90%, as determined by SDS-PAGE
Usage	FOR RESEARCH ONLY
Storage	The protein sample can be stored under sterile conditions at 2- 8 centigrade for one month or at -70 centigrade for three months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	ENPP2 ectonucleotide pyrophosphatase/phosphodiesterase 2 [Homo sapiens]
Official Symbol	ENPP2
Synonyms	ATX; NPP2; ATX-X; PDNP2; LysoPLD; AUTOTAXIN; PD-IALPHA; ectonucleotide pyrophosphatase/phosphodiesterase family member 2; E-NPP 2; autotaxin-t;

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	extracellular lysophospholipase D; phosphodiesterase I/nucleotide pyrophosphatase 2; plasma lysophospholipase D
Gene ID	5168
mRNA Refseq	NM_001040092
Protein Refseq	NP_001035181
MIM	601060
UniProt ID	Q13822
Chromosome Location	8q24.1
Pathway	Ether lipid metabolism, organism-specific biosystem; Ether lipid metabolism, conserved biosystem
Function	alkylglycerophosphoethanolamine phosphodiesterase activity; calcium ion binding; hydrolase activity

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