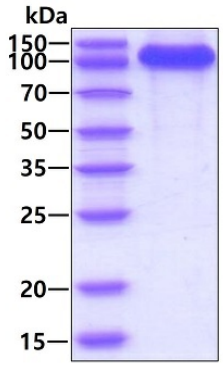
Bioactive HuPro®

ENPP2 (Human) Recombinant Protein

Catalog # P7887 Size 500 ug

Applications



SDS-PAGE analysis of ENPP2 (Human) Recombinant Protein.

Specification

Product Description	Human ENPP2 (Q13822, 49 a.a. - 863 a.a.) partial recombinant protein with His tag expressed in HEK293 cells.
Sequence	MDSPWTNISGSCKGRCFELQEAGPPDCRCDNLCKSYTSCCHDFDELCLKTARGWECTKDRCG EVRNEENACHCSEDCLARGDCCTNYQVVCKGESHWVDDDCEEIKAAECPAGFVRPPLIIFSVD GFRASYMKKGSKVMPNIEKLRSCGTHSPYMRPVYPTKTFPNLYTLATGLYPESHGIVGNSMYDPV FDATFHLRGREKFNHRWWGGQPLWITATKQGVKAGTFFWSVVIPHERRILTILQWLTLPDHERPS VYAFYSEQPDFSGHKYGPFGPEMTNPLREIDKIVGQLMDGLKQLKLHRCVNVIFVGDHGMEDVTC DRTEFLSNYLTNVDDITLVPGTLGRIRSKFSNNAKYDPKAIIANLTCKKPDQHFKPYLKQHLPKRLHY ANNRRIEDIHLLVERRWHVARKPLDVYKKPSGKCFFQGDHGFDNKVNSMQTVFVGYGSTFKYKT KVPPFENIELYNVMCDLLGLKPAPNNGTHGSLNHLLRTNTFRPTMPEEVTRPNYPGIMYLQSDFDL GCTCDDKVEPKNKLDELNKRLHTKGSTEERHLLYGRPAVLYRTRYDILYHTDFESGYSEIFLMPLW TSYTVSKQAEVSSVPDHLTSCVRPDVRVSPSFSQNCLAYKNDKQMSYGFLFPPYLSSSPEAKYD AFLVTNMVPMYPAFKRVWNYFQRVLVKKYASERNGVNVISGPIFDYDYDGLHDTEDKIKQYVEGS SIPVPTHYYSIITSCLDFTQPADKCDGPLSVSSFILPHRPDNEESCNSSEDESKWVEELMKMHTAR VRDIEHLTSLDFFRKTSRSYPEILTLKTYLHTYESEI
Host	Human
Theoretical MW (kDa)	94.90000000000001
Form	Liquid

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Preparation Method	Mammalian cell (HEK 293) expression system
Purity	> 90% as analyzed by SDS-PAGE.
Endotoxin Level	< 1 EU/ug of protein by the LAL method.
Activity	Specific activity is > 15000 units/mg, and defined as the amount of enzyme that hydrolyze 1nmole of bis(p-Nitrophenyl) phosphate per minute at pH8.7 at 37ºC.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue. SDS-PAGE analysis of ENPP2 (Human) Recombinant Protein.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol)
Storage Instruction	Store at 4°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — ENPP2

Entrez GeneID	5168
Protein Accession#	Q13822
Gene Name	ENPP2
Gene Alias	ATX, ATX-X, AUTOTAXIN, FLJ26803, LysoPLD, NPP2, PD-IALPHA, PDNP2
Gene Description	ectonucleotide pyrophosphatase/phosphodiesterase 2
Omim ID	601060
Gene Ontology	Hyperlink

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Gene Summary	The protein encoded by this gene functions as both a phosphodiesterase, which cleaves phospho diester bonds at the 5' end of oligonucleotides, and a phospholipase, which catalyzes production of lysophosphatidic acid (LPA) in extracellular fluids. LPA evokes growth factor-like responses inc luding stimulation of cell proliferation and chemotaxis. This gene product stimulates the motility of t umor cells and has angiogenic properties, and its expression is upregulated in several kinds of ca rcinomas. The gene product is secreted and further processed to make the biologically active for m. Several alternatively spliced transcript variants encoding different isoforms have been identifie d. [provided by RefSeq
Other Designations	autotaxin|autotaxin-t|phosphodiesterase I/nucleotide pyrophosphatase 2|plasma lysophospholipas e D

Pathway

- Ether lipid metabolism

Disease

- Tobacco Use Disorder

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