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**Product Data Sheet**


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Product Name: ENPP2 Human

Cat. No.: GP26147

Batch No.: 1

**Product Data**

Purity &gt;98% Source HEK293 Cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms ENPP2, ATX, PDNP2, ATX-X, NPP2, PD-IALPHA, Ectonucleotide pyrophosphatase/phosphodiesterase family member 2 isoform 2, ectonucleotide pyrophosphatase/phosphodiesterase 2, ENPP2, E-NPP 2, AUTOTAXIN, Extracellular lysophospholipase D, LysoPLD.

Amino Acid Sequence  
 DGSM DSPWTN ISG SCKGR CF ELQEAGPPDC RCDNLCKSYT SCCHDFDELCLKTARGWECT KDR CGEVRNE ENACHCSEDC LARGDCCTNY QVVCKGESHWVDDDCEEIKA AEC PAGFVRP PLIIFSV DGF RASYM KKGSK VMPNIEKLRS CGTHSPYMRP VYPTKTFPNL YTLATGLYPE SHGIVGNSMY DPVFDATFHL RGREKFNHRW WGGQPLWITA TKQGVKAGTF FWSVVIPHER RILTILQWLT LPDHERPSVY AFYSEQPDFS GHKYGPFGE MTNPLREIDK IVGQLMDGLK QLKLHRCVNV IFVGDHGMED VTC DRTEFLS NYLTNVDDIT LVP GTLGRIR SKFSNNAKYD PKAIIANLTC KKP DQHF KPY LKQHLPKRLH YANNRRIEDI HLLVERRWHV ARKPLDVYKK PSGKCFQGD HGF DNKVNSM QTVFVGYGST FKYKTKVPPF ENIELYNVMC DLLGLKPAPN NGTHGSLNHL LRTNTFRPTM PEEVTRPNYP GIMYLQSDFD LGCTCDDKVE PKNKLDELNK RLHTKGSTEE RHLLYGRPAV LYRTRYDILY HTDFESGYSE IFLMPLWTSY TVSKQAEVSS VPDHLTSCVR PDVRVSPSFS QNCLAYKNDK QMSYGFLFPP YLSSSPEAKY DAFLVTNMVP MYP AFKRVWN YFQRVLVKKY ASERNGVNVI SGPIFDYDYD GLHDTEDKIK QYVEGSSIPV PTHYYSIITS CLDFTQPADK CDGPLSVSSF ILPHRPDNEE SCNSSEDESK WVEELMKMHT ARVRDIEHLT SLDFFRKTSR SYPEILTLKT YLHTYESEIH HHHHH

Formulation The ENPP2 solution (0.25mg/ml) contains PBS (pH7.4) and 10% glycerol.

**Introduction**

Ectonucleotide Pyrophosphatase-2, aka ENPP2, a part of the ectonucleotide

**Caution: Product has not been fully validated for medical applications. For research use only.**

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pyrophosphatase family. ENPP2 is able to cut the phosphodiester bond between the alpha and the beta position of triphosphate nucleotides, acting as an ectonucleotide phosphodiesterase producing pyrophosphate, as most members of the ENPP family. It is unlike ENPP-1 and ENPP-3, has weak activity against nucleotides, but shows a lysophospholipase D activity which allows the formation of LPA and choline from lysophosphatidylcholine. As well, ENPP-2 and LPA are involved in several inflammatory-driven diseases such as arthritis and asthma.

### Biological Activity

Specific activity is greater than 15,000 units/mg, and defined as the amount of enzyme that hydrolyze 1nmole of bis (pNitrophenyl) phosphate per minute at pH8.7 at 37°C.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

ENPP2 Human Recombinant produced in HEK293 Cells is a single, glycosylated polypeptide chain containing 825 amino acids (49-863a.a) and having a molecular mass of 94.9kDa. ENPP2 is fused to a 6 amino acid His-tag at C-terminus, and is purified by proprietary chromatographic techniques.

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