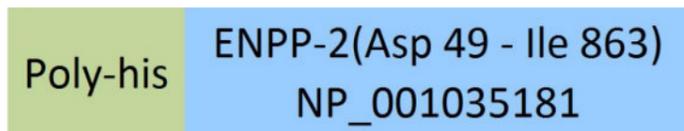


Synonym

ENPP-2, E-NPP 2, Autotaxin, LysoPLD, ATX, PDNP2, ATX-X, NPP2, PD-IALPHA

SourceHuman ENPP-2, His Tag (EN2-H5241) is expressed from human 293 cells (HEK293). It contains AA Asp 49 - Ile 863 (Accession # [NP_001035181](#)).

Predicted N-terminus: His

Molecular Characterization

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 94.5 kDa. The protein migrates as 90-100 kDa under reducing (R) condition (SDS-PAGE).

EndotoxinLess than 1.0 EU per μg by the LAL method.**Purity**

>95% as determined by SDS-PAGE.

FormulationLyophilized from 0.22 μm filtered solution in 50 mM Tris, 150 mM NaCl, pH 7.5. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

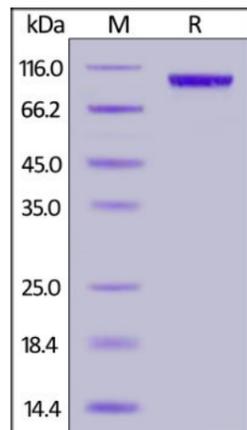
Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.***Storage**For long term storage, the product should be stored at lyophilized state at -20°C or lower.*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

Human ENPP-2, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

BioactivityMeasured by its ability to cleave Bis (p-Nitrophenyl) Phosphate (BPNPP). The specific activity is $>8,000$ pmol/min/ μg , as measured under the described conditions (QC tested).**Background**

Autotaxin also known as ectonucleotide pyrophosphatase / phosphodiesterase family member 2 (E-NPP 2 or ENPP2), Extracellular lysophospholipase D (LysoPLD), Autotaxin (ATX or ATX-X), which belongs to the nucleotide pyrophosphatase / phosphodiesterase family. ENPP2 contains two SMB (somatomedin-B) domains. ENPP2 hydrolyzes lysophospholipids to produce lysophosphatidic acid (LPA) in extracellular fluids. ENPP2 can act on sphingosylphosphorylcholine producing sphingosine-1-phosphate, a modulator of cell motility. ENPP2 stimulates migration of melanoma cells, probably via a pertussis toxin-sensitive G protein.

References

- (1) [Stracke M.L., et al., 1992, J. Biol. Chem. 267:2524-2529.](#)
- (2) [Nam S.W., et al., 2001, Cancer Res. 61:6938-6944.](#)
- (3) [Hausmann J., et al., 2011, Nat. Struct. Mol. Biol. 18:198-204.](#)

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.