

Recombinant Human Autotaxin/E-NPP2 Protein

Catalog No.: RP02143 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	5168	Q13822

Tags

N-His

Synonyms

ENPP2;ATX;ATX-X;AUTOTAXIN;LysoPLD;NPP2;PD-IALPHA;PDNP2

Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

Calculated MW	Observed MW
94.54 kDa	100-120 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

ENPP-2, also known as Autotaxin, belongs to the ectonucleotide pyrophosphatase/phosphodiesterase (NPP) family. Some NPPs hydrolyze phosphates from nucleotides and their derivatives. ENPP-2 shares 40 - 50% identity to ENPP1 & 3, all of which contain a N-terminal intracellular domain, a single transmembrane domain and a large extracellular domain that includes a catalytic domain, two somatomedin-B-like domains, and a C-terminal nuclease-like domain. Evidence shows LPA and sphingosine 1-phosphate to be specific inhibitors of ENPP-2. ENPP-2 was originally found to stimulate tumor cell motility and has since been found to enhance tumor invasion and metastasis and to be up-regulated in several types of carcinomas including breast and lung.

Basic Information

Description

Recombinant Human Autotaxin/E-NPP2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp49-Ile863) of human ENPP-2 (Accession #AAH34961.1) fused with a His tag at the N-terminus.

Bio-Activity

Measured by its ability to cleave Bis (p-Nitrophenyl) Phosphate (BPNPP). The specific activity is >15000 pmol/min/μg, as measured under the described conditions.

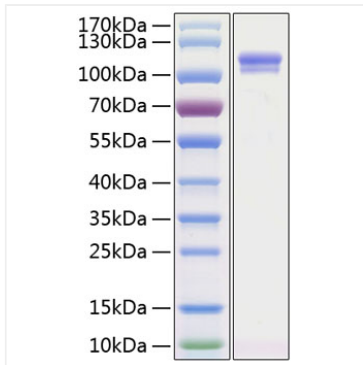
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

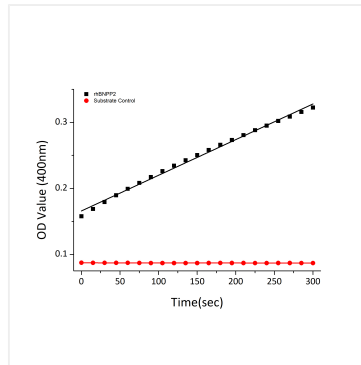
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Autotaxin/E-NPP2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 100-120kDa.



Recombinant Human Autotaxin/E-NPP2 cleave Bis (p-Nitrophenyl) Phosphate (BPNPP). The specific activity is >15000 pmol/min/ μ g, as measured under the described conditions.