

Recombinant Mouse Autotaxin/E-NPP2 Protein

Catalog No.: RP01852 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	18606	Q9R1E6-1

Tags

C-His

Synonyms

Ectonucleotide
 pyrophosphatase/phosphodiesterase
 family member 2; E-NPP 2; 3.1.4.39;
 Autotaxin; Extracellular
 lysophospholipase D; LysoPLD□Enpp2;
 Npps2; Pdnp2

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS- PAGE.

Calculated MW	Observed MW
94.40 kDa	100-130 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL
method.

Formulation

Lyophilized from a 0.22 μm filtered
solution of 20mM Tris□150mM
NaCl□pH7.4

Reconstitution

Centrifuge the vial 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. Unlike ENPP-1 and ENPP-3, ENPP-2 has weak activity against nucleotides, but exhibits a lysophospholipase D activity which allows the formation of lysophosphatidic acid (LPA) and choline from lysophosphatidylcholine. The hydrolysis of nucleotides and lysophospholipids by ENPP-2 is mediated by a single catalytic site. 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 Mouse Autotaxin/E-NPP2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser49-Ile862) of Mouse Autotaxin/E-NPP2 (Accession #NP_056559.2) fused with a His tag at the C-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

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

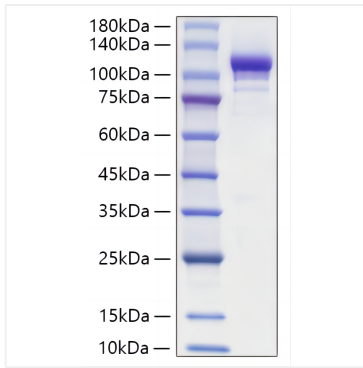
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Mouse Autotaxin/E-NPP2
Protein was determined by SDS-PAGE under
reducing conditions with Coomassie Blue.