

Recombinant Mouse Autotaxin/E-NPP2 Protein

Catalog No.: RP01852

Sequence Information

Species	Gene ID
Mouse	18606
Swiss Prot	Tags
Q9R1E6-1	C-His

Synonyms

Ectonucleotide pyrophosphatase /phosphodiesterase family member 2, E-NPP 2, 3.1.4.39, Autotaxin, Extracellular lysophospholipase D, LysoPLD, Enpp2, Npps2, Pdnpp2

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.

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

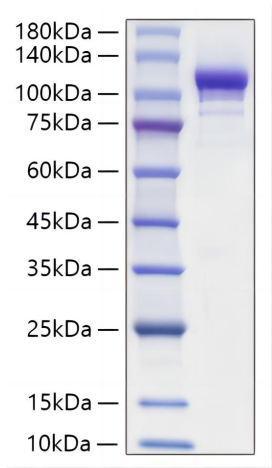
Operational Notes

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

Contact

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Validation Data



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