Recombinant Human Autotaxin/E-NPP2 Protein

Catalog No.: RP02143

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Sequence Information

Species
Human

Gene ID
5168

Swiss Prot
Q13822

Tags
N-His

Synonyms
ENPP2,ATX,ATX-X,AUTOTAXIN, LysoPLD,NPP2,PD-IALPHA,PDNP2

Product Information

Source
HEK293 cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
94.54 kDa

Observed MW
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 stablizer (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.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.

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.

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℃

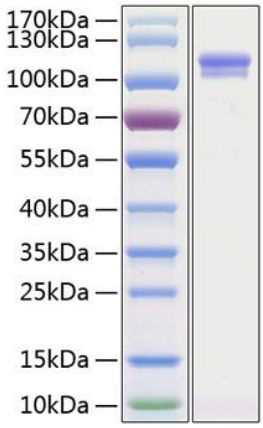
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

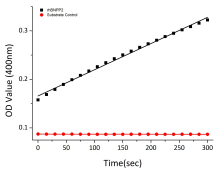
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Validation Data



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



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