

# Recombinant Human Autotaxin/ENPP2 Protein (aa 36-863, His Tag)

**DIA • AN**<sup>®</sup>  
by Elabscience

Catalog Number:PKSH033693

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

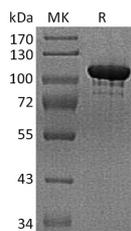
## Description

|                                    |   |
|------------------------------------|---|
| <b>Synonyms</b>                    | ATX;ATXFLJ26803;ATX-X;Autotaxin;autotaxin-t;EC 3.1.4.39;ectonucleotide pyrophosphatase/phosphodiesterase 2;E-NPP 2;ENPP2;LysoPLD;NPP2;PD-IALPHA;PDNP2;PDNP2NPP2 |
| <b>Species</b>                     | Human   |
| <b>Expression Host</b>             | HEK293 Cells  |
| <b>Sequence</b>                    | Ala36-Ile863  |
| <b>Accession</b>                   | AAH34961.1  |
| <b>Calculated Molecular Weight</b> | 96 kDa  |
| <b>Observed molecular weight</b>   | 100-120 kDa   |
| <b>Tag</b>                         | C-His   |

## Properties

|                       |  |
|-----------------------|--|
| <b>Purity</b>         | > 90 % as determined by reducing SDS-PAGE.   |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.  |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.                      |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.  |
| <b>Formulation</b>    | Lyophilized from a 0.2 µm filtered solution of 20mMPB,150mMNaCl,pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.   |

## Data



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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

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carcinomas including breast and lung.

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