



Recombinant Protein Technical Manual

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

RPE3012

Product Data:

Product SKU: RPE3012

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q13822

Protein Information:

Molecular Mass: 90 kDa

AP Molecular Mass: 10020 kDa

Tag: C-His

Bio-activity:

Purity: > 90% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mMPB, 150mMNaCl, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: 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

Immunogen Information:

Sequence: Ala36-Ile863

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.