



Recombinant Protein Technical Manual
Recombinant Mouse CD39/ENTPD1 Protein (His Tag)
RPES1812

Product Data:

Product SKU: RPES1812

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: P55772

Protein Information:

Molecular Mass: 50.5 kDa

AP Molecular Mass: 60-90 kDa

Tag: C-His

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

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

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM Tris, 500mM NaCl, 10% Glycerol, pH 7.4.

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

Application:

Synonyms: Ectonucleoside triphosphate diphosphohydrolase 1; NTPDase 1; NTPDase 1; Ecto-ATP diphosphohydrolase 1; Ecto-ATPDase 1; Ecto-ATPase 1; Ecto-apyrase; Lymphoid cell activation antigen; CD39

Immunogen Information:

Sequence: Thr38-Ile478

Background:

Ectonucleoside triphosphate diphosphohydrolase (NTPDase) is an integral membrane protein with an extracellular active site. Recombinant mouse NTPDase was expressed as a protein lacking its N- and C-terminal transmembrane domains, resulting in the secretion of the soluble ectodomain. NTPDase was originally described as CD39, a B lymphocyte cell surface marker, but it is also present on the surface of natural killer cells, T cells, and some endothelial cells. NTPDase 1 hydrolyzes the β - and γ phosphate residues of nucleotides, preferring ATP as the substrate. Through its hydrolysis of extracellular nucleotides, NTPDase plays a role in the regulation of purinergic signaling. NTPDase is involved in the processes of thromboregulation and vascular inflammation. The administration of soluble NTPDase may have therapeutic applications for the treatment of some vascular and transplantation-associated diseases.