

Recombinant Mouse CD39/ENTPD1 Protein (His Tag)



Catalog Number:PKSM041341

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

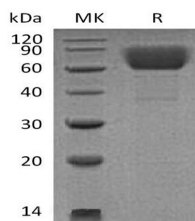
Description

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
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Thr38-Ile478
Accession	P55772
Calculated Molecular Weight	50.5 kDa
Observed molecular weight	60-90 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein 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/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 500mM NaCl, 10% Glycerol, pH 7.4.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Ectonucleoside triphosphate diphosphohydrolase-1 (NTPDase-1) is an integral membrane protein with an extracellular active site. Recombinant mouse NTPDase-1 was expressed as a protein lacking its N- and C-terminal transmembrane domains, resulting in the secretion of the soluble ectodomain. NTPDase-1 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-1 plays a role in the regulation of purinergic signaling. NTPDase-1 is involved in the processes of thromboregulation and vascular inflammation. The administration of soluble NTPDase-1 may have therapeutic applications for the treatment of some vascular and transplantation-associated diseases.

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