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# **Recombinant Mouse CD39/ENTPD1 Protein (His Tag)**

Catalog No. PKSM041341

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

## **Description**

**Synonyms** Ectonucleoside triphosphate diphosphohydrolase 1;NTPDase 1;Ecto-

ATP diphosphohydrolase 1;Ecto-ATPDase 1;Ecto-ATPase 1;Ecto-

apyrase;Lymphoid cell activation antigen;CD39

Species Mouse

Expression Host

Sequence
Thr38-Ile478
Accession
P55772
Calculated Molecular Weight
Observed molecular weight
Tag
C-His

**Bioactivity** Not validated for activity

### **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  $< -20^{\circ}$ 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

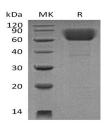
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

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-1wasexpressed as a protein lacking its N- andC-terminaltransmembrane domains, resulting in the secretion of the soluble ectodomain. NTPDase-1was originally describedas CD39, a B

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Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: www.elabscience.com

Email: techsupport@elabscience.com

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lymphocyte cell surface marker. but it is also present on the surface of natural killer cells, T cells, and some endothelial cells. NTPDase1hydrolyzes the  $\beta$ -and $\gamma$  phosphate residues of nucleotides, preferring ATP as the substrate. Through its hydrolysis of extracellular nucleotides, NTPDase-1plays arole in the regulation of purinergic signaling. NTPDase-1is 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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