

CD39 Protein, Human, Recombinant (HEK293, His)

General Information

Synonyms:	SPG64;NTPDase-1;ectonucleoside triphosphate diphosphohydrolase 1;ATPDase;CD39
Protein Construction:	Thr38-Val478
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P49961-1
Molecular Weight:	51.91 kDa (Predicted); 65-75 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Measured by its ability to hydrolyze the 5'-phosphate groups from the substrate adenosine-5'-triphosphate (ATP). The specific activity is > 9000 pmol/min/μg (QC Test). Immobilized Human CD39, His Tag at 2 μg/ml (100 μl/well) on the plate. Dose response curve for Anti-CD39 Antibody, hFc Tag with the EC50 of 3.3 ng/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μm filtered solution in 20 mM Tris, 150 mM NaCl (pH 8.0).

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CD39, also known as ENTPD1, belongs to the GDA1/CD39 NTPase family. It is expressed primarily on activated lymphoid cells and can also be detected in endothelial tissues. CD39 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481