Recombinant Human5'-Nucleotidase/NT5E/CD73 Protein

Catalog No.: RP00160

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Sequence Information

Species	Gene ID
Human	4907
Swiss Prot	**Tags**
P21589	C-His

Synonyms
NT5E,CALJA,CD73,E5NT,NT,NT5, NTE,eN,eNT

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.
Calculated MW	**Observed MW**
61.10 kDa	60-70 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

73, an ecto-5'-Nucleotidase, is an ectoenzyme expressed by most cell types. CD73 is a plasma membrane protein that catalyzes the conversion of extracellular nucleotides to membrane-permeable nucleosides. The proteins are used as determinants of lymphocyte differentiation. Defects in this gene can lead to the calcification of joints and arteries.

Basic Information

Description
Recombinant Human5'-Nucleotidase/NT5E/CD73 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Lys547) of human 5'-Nucleotidase/CD73 (Accession #NP_002517.1) fused with a 6×His tag at the C-terminus.

Activity
1.Measured by its binding ability in a functional ELISA. Immobilized Human 5-Nucleotidase/CD73 at 2 μg/mL (100 μL/well) can bind 5-Nucleotidase/CD73 Rabbit pAb with a linear range of 0.16-2.93 ng/mL.
2.Measured by its ability to hydrolyze the 5'-phosphate group from the substrate adenosine-5'-monophosphate (AMP). The orthophosphate product is measured by a Malachite Green Phosphate Detection Kit. The specific activity is >33654 pmol/min/μg.
3.Measured by its ability to hydrolyze the 5'-phosphate group from the substrate adenosine-5'-monophosphate (AMP). The specific activity is >25, 000 pmol/min/μg.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

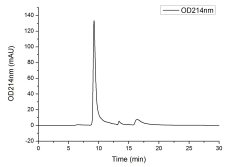
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

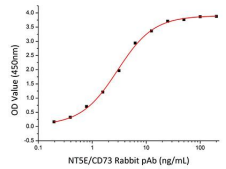
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Please visit http://abclonal.com for a complete listing of recommended products.

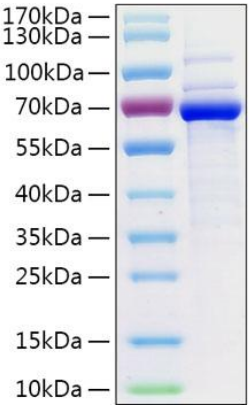
Validation Data



The purity of Human 5'-Nucleotidase/CD73 Protein (Cat.RP00160) was greater than 90% as determined by SEC-HPLC.



Immobilized Human 5'-Nucleotidase/CD73 at 2 μg/mL (100 μL/well) can bind 5'-Nucleotidase/CD73 Rabbit pAb with a linear range of 0.16-2.93 ng/mL.



Recombinant Human5'-Nucleotidase/NT5E/CD73 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.