

Recombinant Human 5'-Nucleotidase/NT5E/CD73 Protein

Catalog No.: RP00410

Sequence Information

Species **Gene ID**
Human 4907

Swiss Prot **Tags**
P21589-1 C-hFc

Synonyms

CD73; NT5E; NTE; 5' nucleotidase (CD73); 5'-NT; 5-NT; E5NT; EC 3.1.3.5; eN; eNT; NT; NT55'-nucleotidase; NT5; NTE; CALJA

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

Calculated MW **Observed MW**
84.5 kDa 85-100 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from 0.22 μm filtered solution in 20 mM Tris, 120 mM NaCl (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization.

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

CD73, also known as ecto-5'-nucleotidase, is an enzyme that in humans is encoded by the NT5E gene. CD73 commonly serves to convert AMP to adenosine. The enzyme consists of a dimer of 2 identical 70-kD subunits bound by a glycosyl phosphatidyl inositol linkage to the external face of the plasma membrane. The enzyme is used as a marker of lymphocyte differentiation. A deficiency of CD73 occurs in a variety of immunodeficiency diseases.

Basic Information

Description

Recombinant Human 5'-Nucleotidase/NT5E/CD73 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Trp27-Lys547) of Human 5'-Nucleotidase/NT5E/CD73 (Accession #P21589-1) fused with a C-hFc tag at the C-terminus.

Activity

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°C

Operational Notes

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

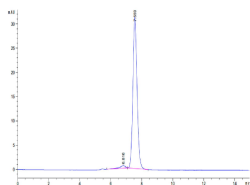
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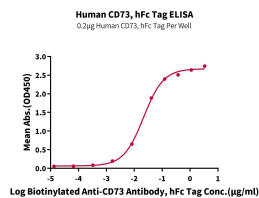
Validation Data



The purity of Human CD73 is greater than 95% as determined by SEC-HPLC.



Recombinant Human 5'-Nucleotidase/NT5E/CD73 Protein was determined by Tris-Bis PAGE under reducing conditions.



Immobilized Human CD73, hFc Tag at 2 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) on the plate. Dose response curve for Biotinylated Anti-CD73 Antibody, hFc Tag with the EC_{50} of 22.6ng /mL determined by ELISA (QC Test).