

Recombinant Human/Cynomolgus/Rhesus macaque CD28 Protein

Catalog No.: RP00572 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human/Cyno 940 P10747-1 molgus/Rhes

Tags N-hFc

Synonyms

us-macaque

CD28 antigen (Tp44); CD28 antigen; CD28 molecule; CD28; MGC138290; Tcell-specific surface glycoprotein CD28; Tp44

Product Information

Source Purification HEK293 cells ≥ 95 % as

≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW Observed MW

42.6 kDa 55-70 kDa

Endotoxin

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

Formulation

Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

400-999-6126

Background

CD28 is the receptor for CD80 (B7-1) and CD86 (B7-2) proteins. When activated by Toll-like receptor ligands, the CD80 expression is upregulated in antigen presenting cells (APCs). The CD86 expression on antigen presenting cells is constitutive. CD28 is the only B7 receptor constitutively expressed on naive T cells.

Basic Information

Description

Recombinant Human/Cynomolgus/Rhesus macaque CD28 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asn19-Pro152) of Human/Cynomolgus/Rhesus-macaque CD28 (Accession #P10747-1) fused with hFc tag at the N-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

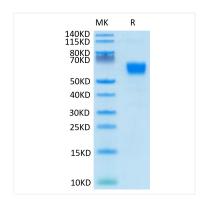
After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

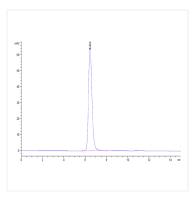
Operational Notes

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

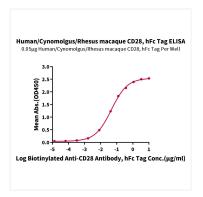
Validation Data



Recombinant Human/Cynomolgus/Rhesus macaque CD28 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Human/Cynomolgus/Rhesus macaque CD28 was greater than 95% as determined by SEC-HPLC.



Immobilized Human/Cynomolgus/Rhesus macaque CD28, hFc Tag at 0.5 μ g/mL (100 μ L/Well) on the plate. Dose response curve for Biotinylated Anti-CD28 Antibody, hFc Tag with the EC₅₀ of 46.3ng/mL determined by ELISA.