

Biotinylated Recombinant Human/Cynomolgus/Rhesus macaque CD28 Protein

Catalog No.: RP00575B **Recombinant**

Sequence Information

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

Tags

N-His&Avi

Synonyms

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

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE

Calculated MW	Observed MW
18.2 kDa	38-55 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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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

Biotinylated 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) fused with a N-His&Avi tag at the N-terminus.

Bio-Activity

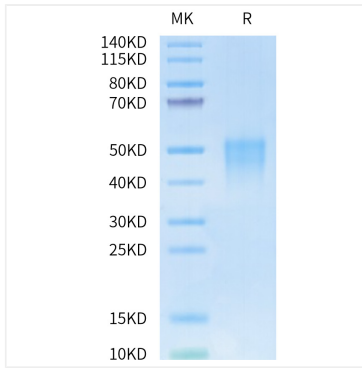
Storage

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

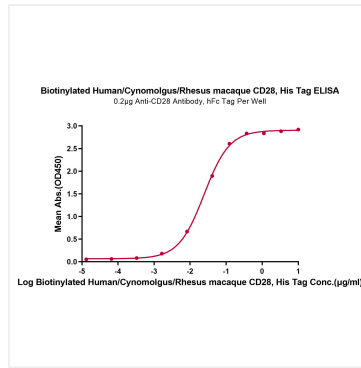
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

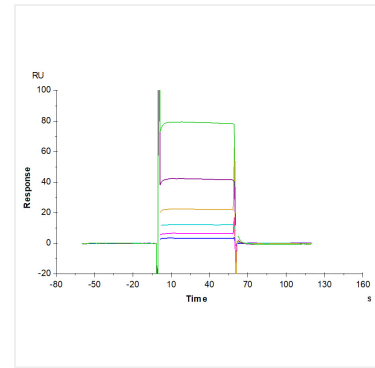
Validation Data



Biotinylated Human/Cynomolgus/Rhesus macaque CD28 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



Immobilized Anti-CD28 Antibody, hFc Tag at 2 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human/Cynomolgus/Rhesus macaque CD28, His Tag with the EC_{50} of 24.4ng/mL determined by ELISA (QC Test).



Human B7-1, hFc Tag captured on CM5 Chip via Protein A can bind Biotinylated Human/Cynomolgus/Rhesus macaque CD28, His-Avi Tag with an affinity constant of 41.59 µM as determined in SPR assay (Biacore T200).