

Biotinylated Recombinant Human/Cynomolgus/Rhesus macaque CD28 Protein

Catalog No.: RP00575B **Recombinant**

Sequence Information

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

Tags
 N-His&Avi

Synonyms

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

Product Information

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

Calculated MW 18.2 kDa **Observed MW** 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.

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

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°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

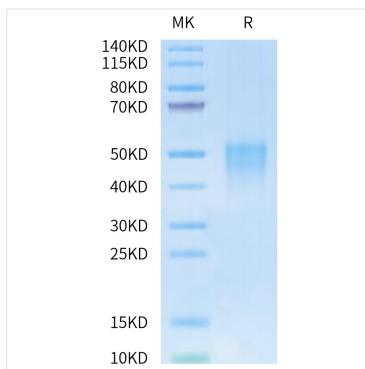
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

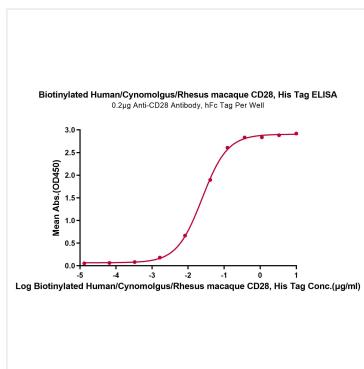
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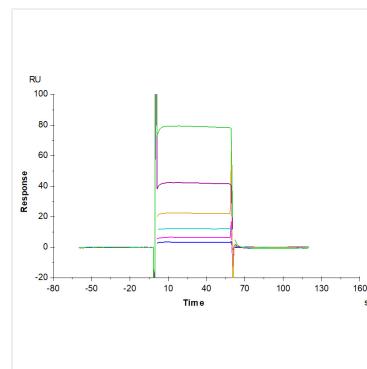
Validation Data



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



Immobilized Anti-CD28 Antibody, hFc Tag at 2 μ g/mL (100 μ L/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 μ M as determined in SPR assay (Biacore T200).