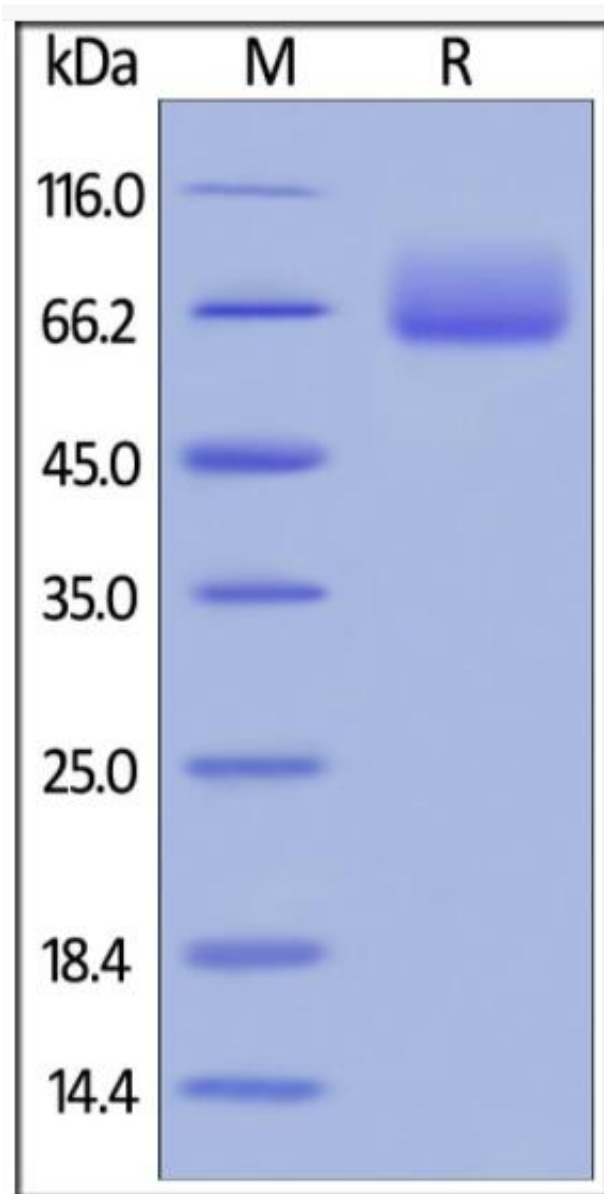


Recombinant Human CD80 protein, C-Fc Tag

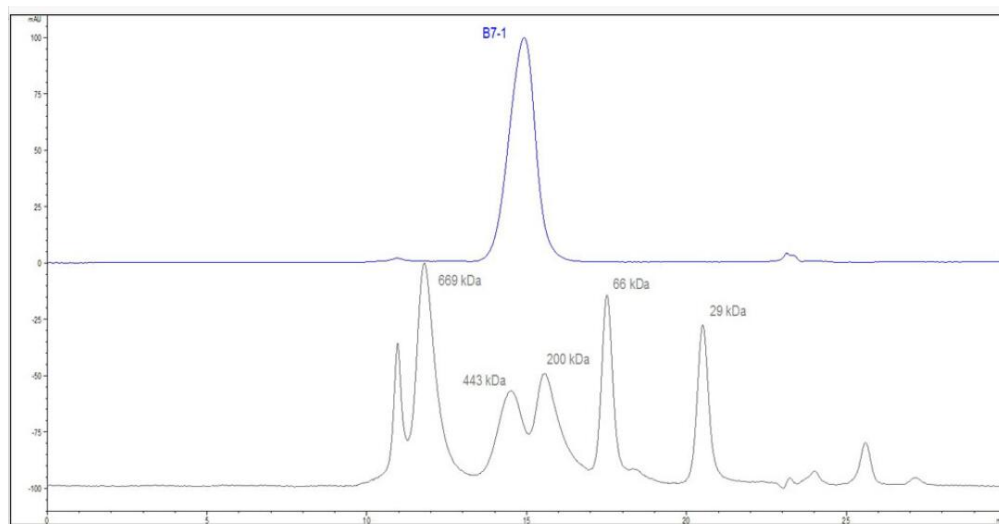
Product Information

| | |
|--------------------------|---|
| Cat | IMP-268 |
| Official Symbol | CD80 |
| Product Overview | Recombinant Human CD80 protein(AA Val 35-Asn 242)(Accession # NP_005182.1) is expressed from human 293 cells (HEK293). This protein carries a human IgG1 Fc tag at the C-terminus. |
| Expression System | HEK293 |
| Species | Human |
| Tag | C-Fc Tag |
| Form | Lyophilized from sterile 50 mM Tris, 100 mM Glycine, pH7.5, 10% trehalose. |
| Molecular Mass | This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 50.0 kDa. The protein migrates as 65-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| Protein length | Val 35-Asn 242 |
| Endotoxin | Less than 1.0 EU per ug by the LAL method. |
| Purity | >95% as determined by SDS-PAGE. |
| Storage | For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution. |
| Reconstitution | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents. |
| SDS-PAGE | |



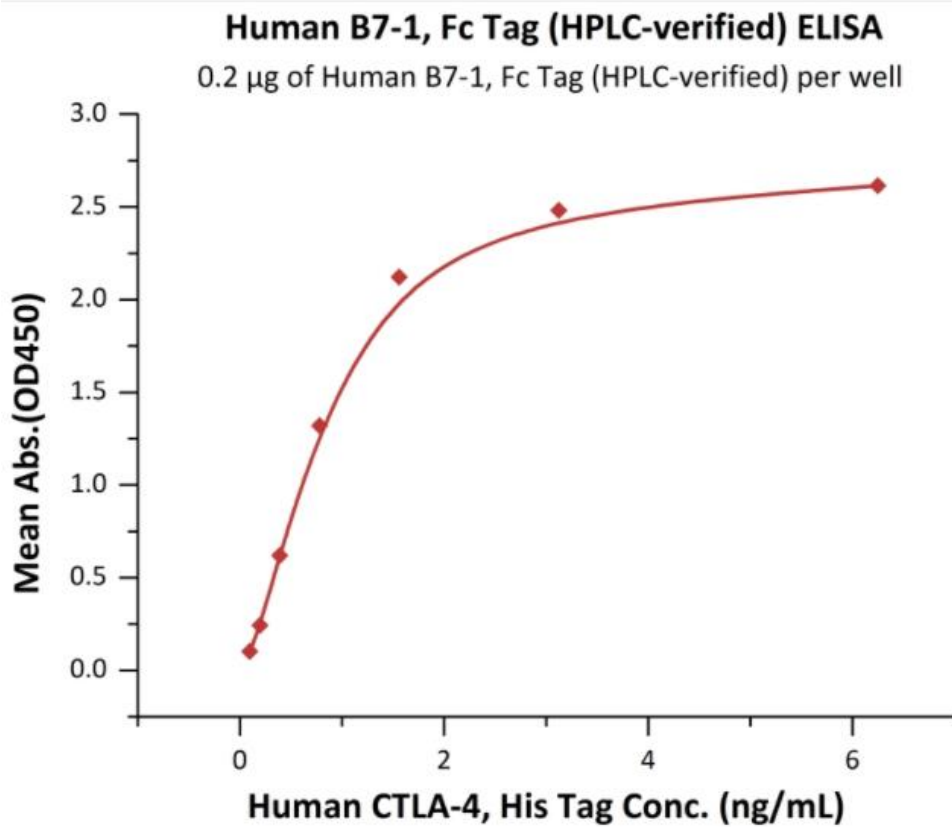
Human B7-1, Fc Tag (HPLC-verified) on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

HPLC



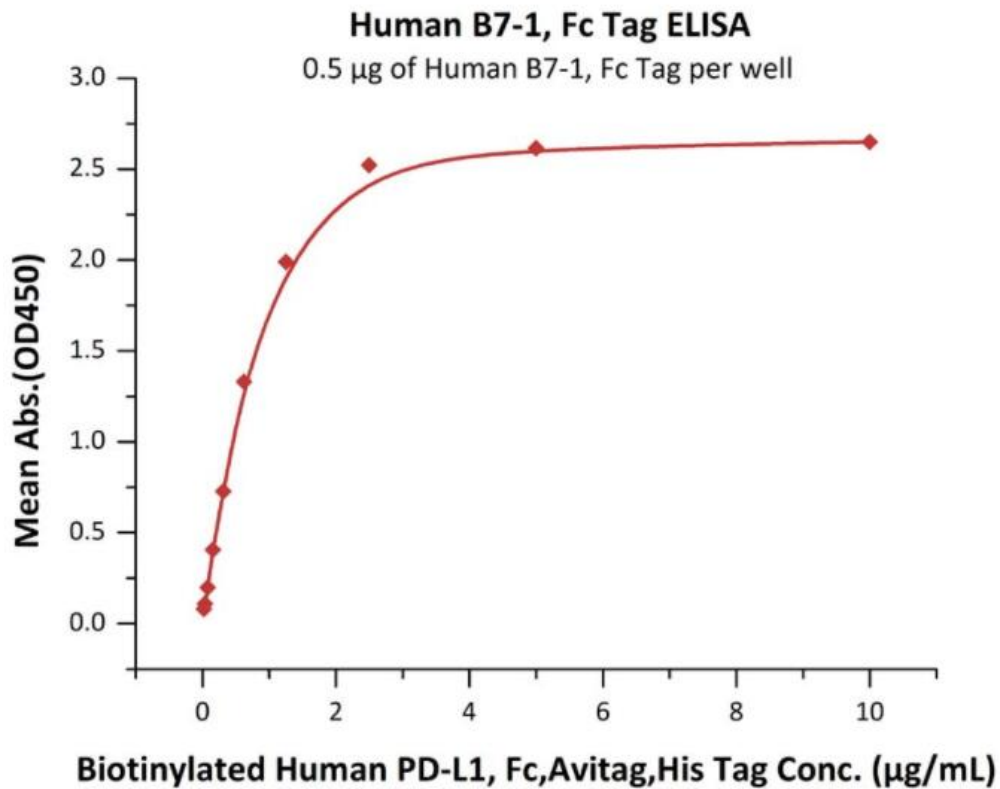
The purity of Human B7-1, Fc Tag (HPLC-verified) was greater than 95% as determined by SEC-HPLC.

Bioactivity-ELISA 1



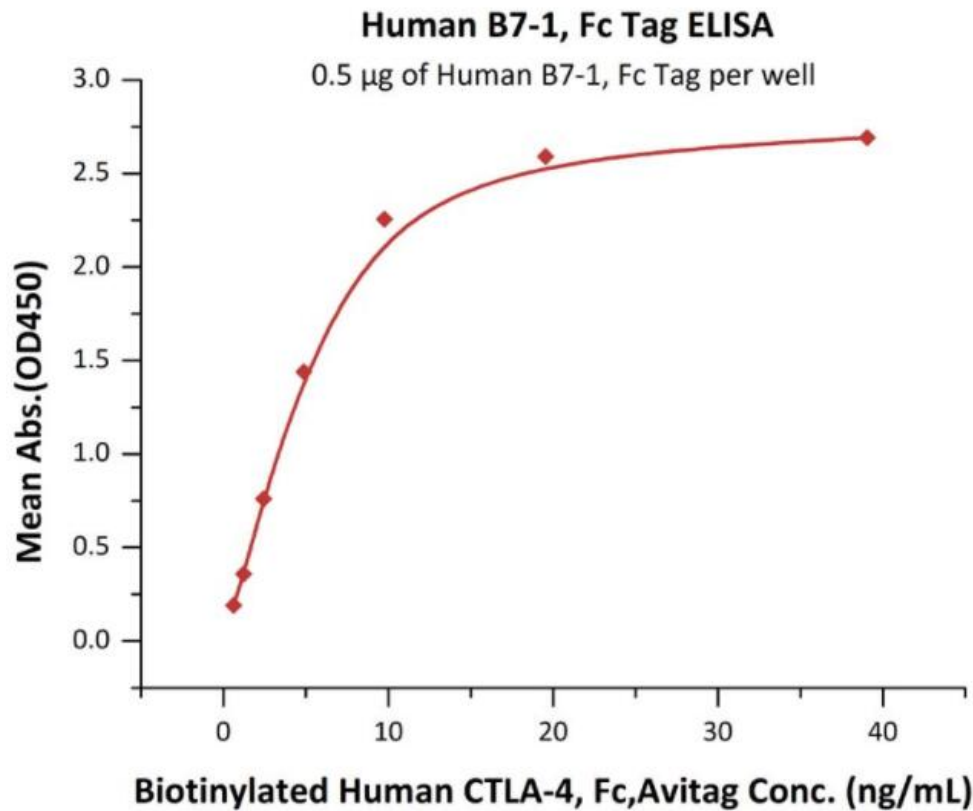
Immobilized Human B7-1, Fc Tag (HPLC-verified) at 2 ug/mL (100 uL/well) can bind Human CTLA-4, His Tag with a linear range of 0.1-2 ng/mL.

Bioactivity-ELISA 2



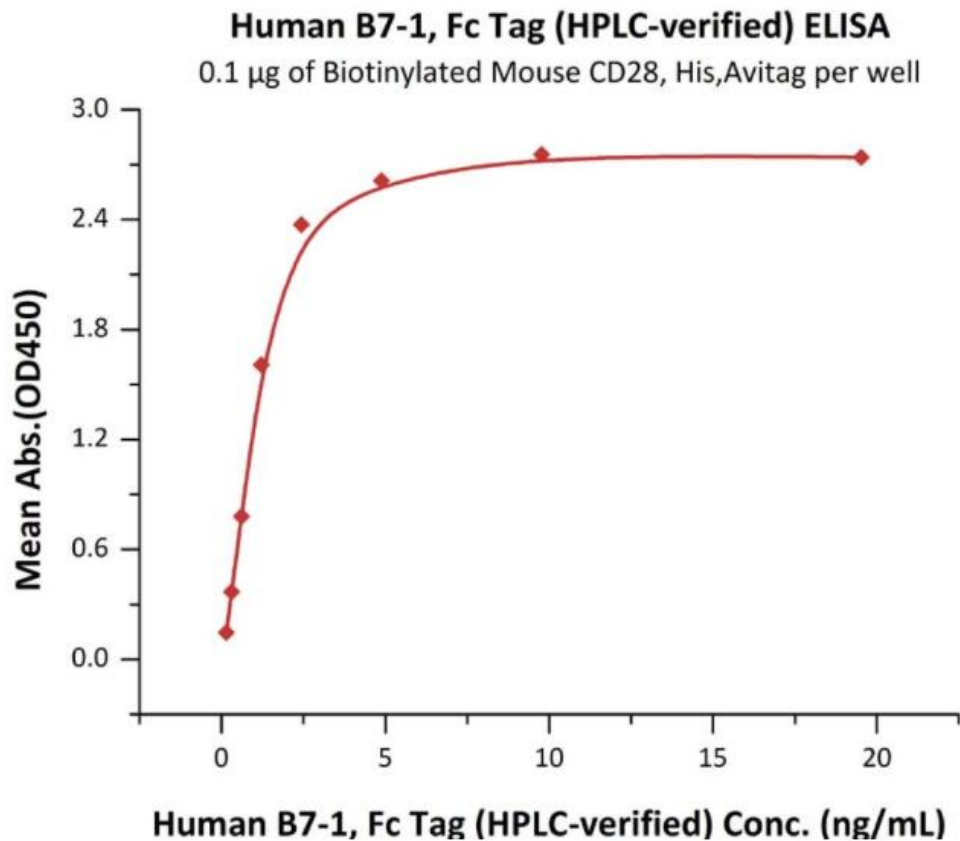
Immobilized Human B7-1, Fc Tag (HPLC-verified) at 5 ug/mL (100 uL/well) can bind Biotinylated Human PD-L1, Fc, Avitag, His Tag with a linear range of 0.02-1.25 ug/mL.

Bioactivity-ELISA 3



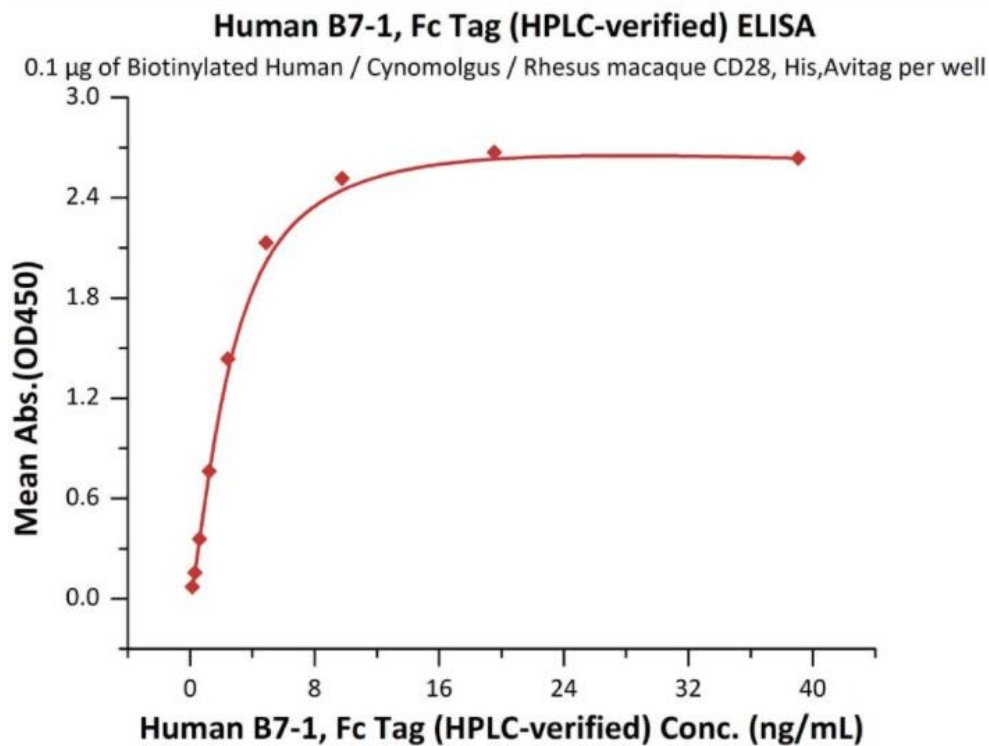
Immobilized Human B7-1, Fc Tag (HPLC-verified) at 5 ug/mL (100 uL/well) can bind Biotinylated Human CTLA-4, Fc, Avitag with a linear range of 0.6-10 ng/mL.

Bioactivity-ELISA 4



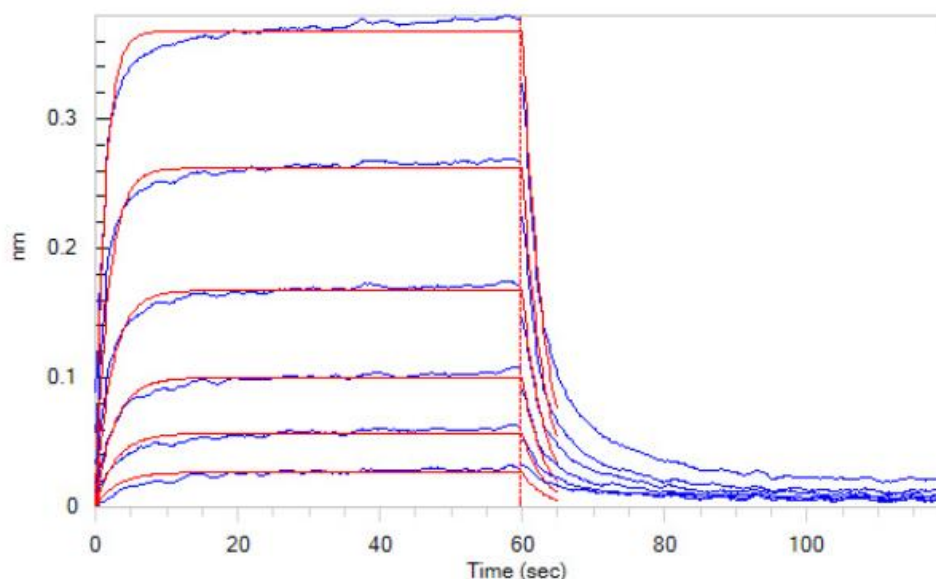
Immobilized Biotinylated Mouse CD28, His,Avitag at 1 ug/mL (100 uL/well) on Streptavidin precoated (0.5 ug/well) plate, can bind Human B7-1, Fc Tag (HPLC-verified) with a linear range of 0.2-2 ng/mL.

Bioactivity-ELISA 5



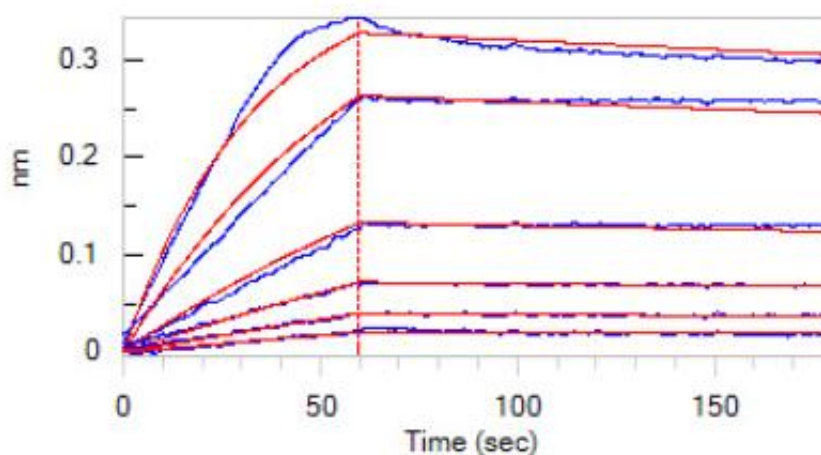
Immobilized Biotinylated Human / Cynomolgus / Rhesus macaque CD28, His,Avitag at 1 ug/mL (100 uL/well) on Streptavidin precoated (0.5 ug/well) plate, can bind Human B7-1, Fc Tag (HPLC-verified) with a linear range of 0.2-5 ng/mL.

Bioactivity-BLI 1



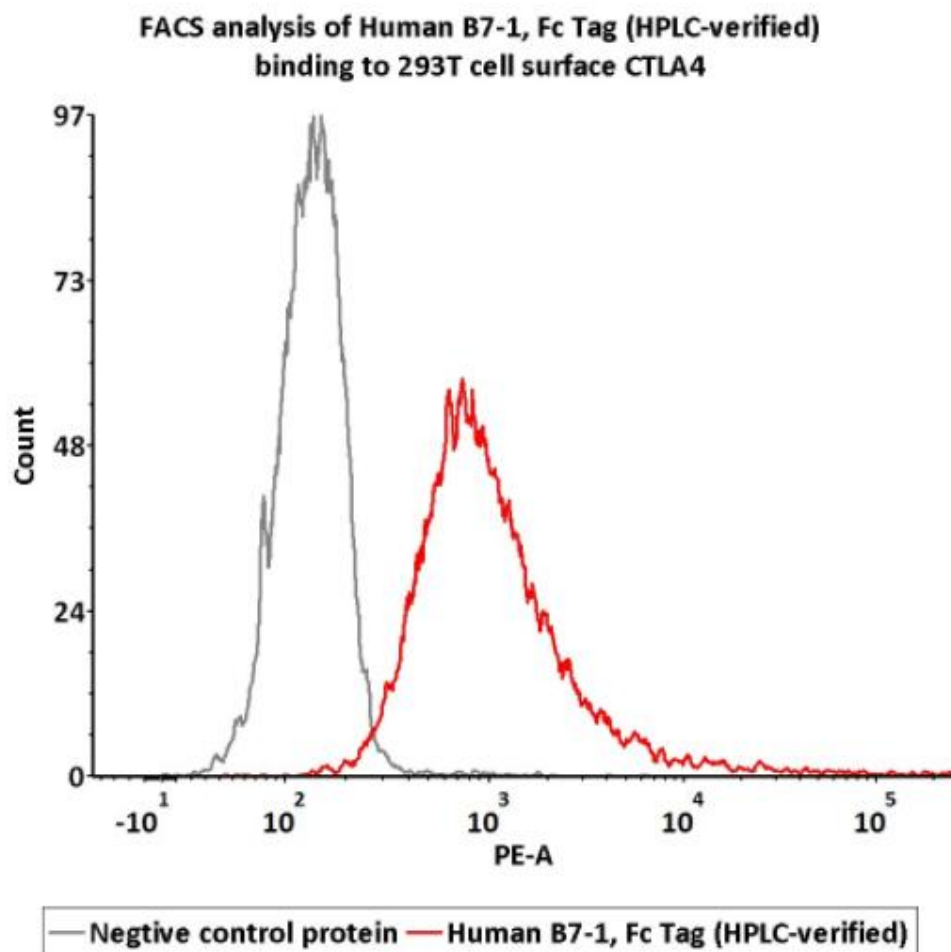
Loaded Human B7-1, Fc Tag (HPLC-verified) on Protein A Biosensor, can bind Human / Cynomolgus / Rhesus macaque CD28, His Tag with an affinity constant of 5.1 μ M as determined in BLI assay (ForteBio Octet Red96e).

Bioactivity-BLI :



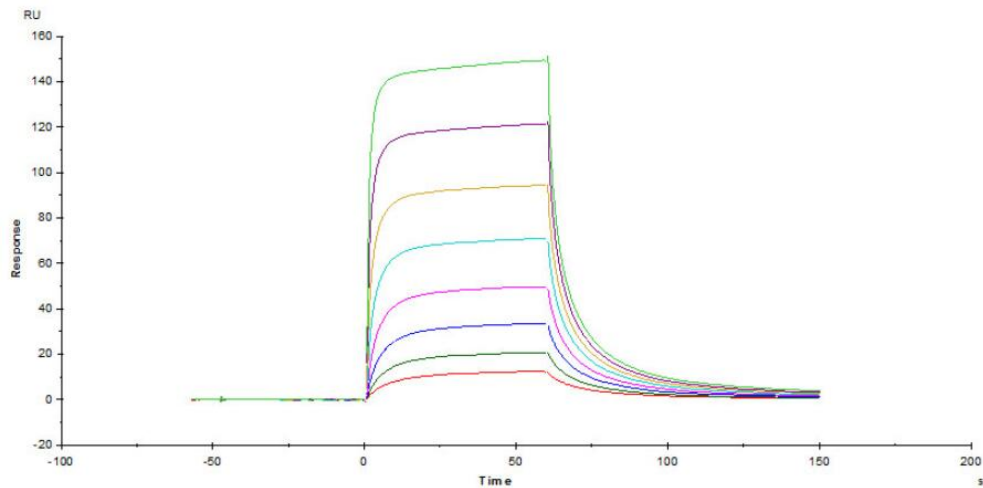
Loaded Human B7-1, Fc Tag (HPLC-verified) on Protein A Biosensor, can bind Human CTLA-4, His Tag, active dimer with an affinity constant of 0.498 nM as determined in BLI assay (ForteBio Octet Red96e).

Bioactivity-FA



FACS assay shows that Human B7-1, Fc Tag (HPLC-verified) can bind to 293T cells overexpressing human CTLA4 protein. The concentration of Human B7-1 is 1 ug/mL.

Bioactivity-SPR 1



Immobilized Human / Cynomolgus / Rhesus macaque CD28, Fc Tag (HPLC-verified) on CM5 Chip can bind Human B7-1, Fc Tag (HPLC-verified) with an affinity constant of 2.01 μ M as determined in a SPR assay (Biacore T200).