Mouse CD28 Protein

Cat. No. CD8-MM128

Description

Source	Recombinant Mouse CD28 Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Asn20-Leu150.
Accession	P31041
Molecular Weight	The protein has a predicted MW of 16.78 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

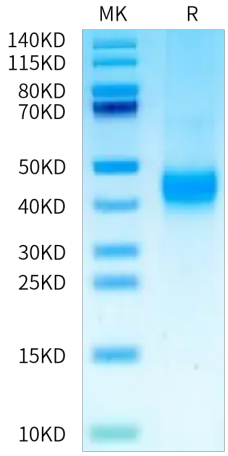
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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.

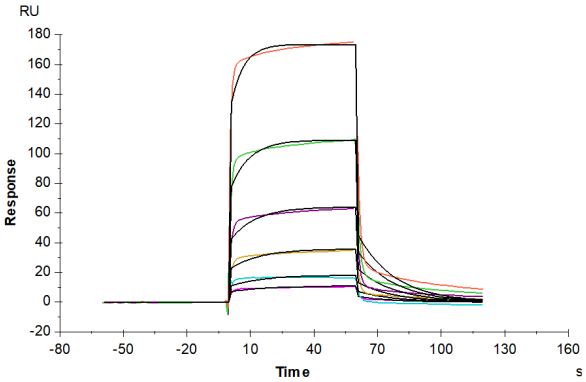
Assay Data

Bis-Tris PAGE



Mouse CD28 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SPR Data



Human B7-1, hFc Tag captured on CM5 Chip via Protein A can bind Mouse CD28, His Tag with an affinity constant of 5.12 μM as determined in SPR assay (Biacore T200).