

## CD28 Protein, Mouse, Recombinant (hFc & His)

### General Information

Synonyms:	T-cell-specific surface glycoprotein CD28;CD28
Protein Construction:	Asn20-Lys149
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P31041
Molecular Weight:	60 KDa (reducing condition)
AA Sequence:	Asn20-Lys149

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 150 mM NaCl, pH 7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

#### Shipping:

In general, Lyophilized powders are shipping with blue ice. Solutions are shipping with dry ice.

### Protein Background

T-cell-specific surface glycoprotein CD28, contains an Ig-like V-type domain. CD28 is one of the proteins expressed on T cells that provide co-stimulatory signals, which are required for their activation. It is the receptor for CD80 and CD86. 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. It involved in T-cell activation, the induction of cell proliferation and cytokine

production and promotion of T-cell survival.

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