

For Research Use Only

Recombinant Mouse CD28 protein (hFc Tag)



Catalog Number: Eg0805

Basic Information

Species:

Mouse

Purity:

>95 %, SDS-PAGE

Tag:

hFc Tag

EC50:

23-91 ng/mL

Technical Specifications

Purity:

>95 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Mouse CD28 protein Asn20-Leu150 (Accession# P31041) with a Human IgG1 Fc tag at the C-terminus.

GeneID:

12487

Accession:

P31041

Predicted Molecular Mass:

41.5 kDa

SDS-PAGE:

48-60 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Immobilized Mouse CD86 (His tag) at 1 μg/mL (100 μL/well) can bind Mouse CD28 (hFc tag) with a linear range of 23-91 ng/mL.

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CD28 (T-cell-specific surface glycoprotein CD28), also known as T44 and Tp44, is a 44 kD disulfide-linked homodimeric type I glycoprotein. It is a member of the immunoglobulin superfamily and is expressed on most T lineage cells, NK cell subsets, and plasma cells. CD28 may affect in vivo immune responses by functioning both as a cell adhesion molecule linking B and T lymphocytes and as the surface component of a novel signal transduction pathway. CD28 binds both CD80 and CD86 with a highly conserved motif MYPPY in the CDR3-like loop. CD28 is considered a major co-stimulatory molecule, inducing T lymphocyte activation and IL-2 synthesis, and preventing cell death.

References

- 1.W Lesslauer, et al. (1986) Eur J Immunol. 16(10):1289-96.
- 2.C H June, et al. (1990) Immunol Today. 11(6):211-6.
- 3.T M Williams, et al. (1992) J Immunol. 148(8):2609-16.
- 4.P S Linsley, et al. (1993) Annu Rev Immunol. 11:191-212.
- 5.R J Peach, et al. (1994) J Exp Med. 180(6):2049-58.
- 6.Edward J Evans, et al. (2005) Nat Immunol. 6(3):271-9.

Synonyms

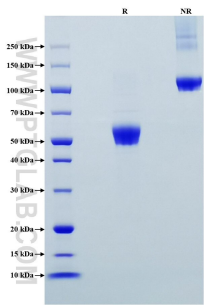
CD28, CD28 antigen, T-cell-specific surface glycoprotein CD28

For technical support and original validation data for this product please contact

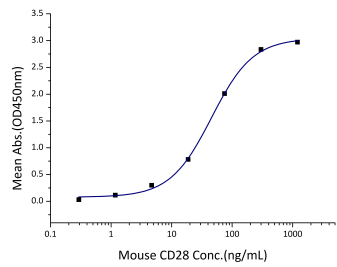
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Purity of Recombinant Mouse CD28 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



Immobilized Mouse CD86 (His tag) at 1 µg/mL (100 µL/well) can bind Mouse CD28 (hFc tag) with a linear range of 23-91 ng/mL