

For Research Use Only

Recombinant Mouse CD28 protein (rFc Tag)



Catalog Number: Eg1408

Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
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Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/µg protein, LAL method

Source:
HEK293-derived Mouse CD28 protein Asn20-Leu150 (Accession# P31041) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
12487

Accession:
P31041

Predicted Molecular Mass:
41.4 kDa

SDS-PAGE:

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

Not tested

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. June, C H et al. Immunology today vol. 11,6 (1990): 211-6.
2. Linsley, P S, and J A Ledbetter. Annual review of immunology vol. 11 (1993): 191-212.
3. Lesslauer, W et al. European journal of immunology vol. 16,10 (1986): 1289-96.
4. Evans, Edward J et al. Nature immunology vol. 6,3 (2005): 271-9.
5. Peach, R J et al. The Journal of experimental medicine vol. 180,6 (1994): 2049-58.
6. Williams, T M et al. Journal of immunology (Baltimore, Md.: 1950) vol. 148,8 (1992): 2609-16.

Synonyms

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

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