

Recombinant Human CD28 protein (His Tag)

Catalog Number: Eg0889

Basic Information

Species:
Human**Purity:**
>90 %, SDS-PAGE**Tag:**
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human CD28 protein Asn19-Pro152 (Accession# P10747-1) with a His tag at the C-terminus.

GeneID:

940

Accession:

P10747-1

Predicted Molecular Mass:

16.2 kDa

SDS-PAGE:

30-40 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

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), or T44 and Tp44, 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 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. In addition, CD28 is considered a major co-stimulatory molecule, inducing T lymphocyte activation and IL-2 synthesis, and preventing cell death.

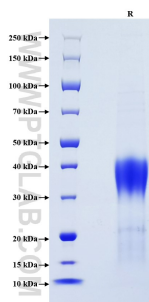
References

1. C H June. et al. (1990). Immunol Today. 11(6):211-216.
2. P S Linsley. et al. (1993). Annu Rev Immunol. 11:191-212.
3. Edward J Evans. et al. (2005). Nat Immunol. 6(3):271-279.
4. W Lesslauer. et al. (1986). Eur J Immunol. 16(10):1289-1296
5. R J Peach. et al. (1994). J Exp Med. 180(6):2049-2058.

Synonyms

CD28 molecule, T-cell-specific surface glycoprotein CD28, Tp44

Selected Validation Data



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

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

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