Rat CD28 / TP44 Protein (His Tag, ECD)

Catalog Number: 80302-R08H

General Information

Gene Name Synonym:
CD28

Protein Construction:
A DNA sequence encoding the rat Cd28 (EDL98926.1) (Met1-Lys149) was expressed with a polyhistidine tag at the C-terminus.

Source: Rat
Expression Host: HEK293 Cells

QC Testing
Purity: > 85 % as determined by SDS-PAGE.

Endotoxin:
< 1.0 EU per µg protein as determined by the LAL method.

Stability:
Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Asn 20

Molecular Mass:
The recombinant rat Cd28 consists 141 amino acids and predicts a molecular mass of 16.4 kDa.

Formulation:
Lyophilized from sterile PBS, pH 7.4.

Usage Guide

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Storage:
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:
Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:

Protein Description

CD28 (Cluster of Differentiation 28) is a disulphide-bonded glycoprotein belonging to the immunoglobulin (Ig) superfamily, and structurally consists of a single Ig V-like extracellular domain, a transmembrane domain and an intracellular domain. Mouse CD28 is constitutively expressed on the surface of all murine T cells and on developing thymocytes as disulfide-linked homodimers or as monomers. CD28 can binds the B7-1 and B7-2 ligand, and together perform important functions in the T and B cell response pathways. B7/CD28 family members, which can augment or antagonize T-cell receptor signaling, in the regulation of central and peripheral T-cell tolerance. CD28 is thus involved in T-cell activation, the induction of cell proliferation and cytokine production and promotion of T-cell survival.

References