

General Information

Protein Construction

A DNA sequence encoding the extracellular domain (Met 1-Lys 149) of mouse CD28 (NP_031668.3) precursor was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.

Organism

Mouse

Expression Host

Human Cells

QC Testing

Activity

Measured by its binding ability in a functional ELISA.

1. Immobilized mouse CD86 at 20 µg/ml (100 µl/well) can bind mouse CD28 Fc Chimera with a linear ranger of 6.4-800 ng/ml.
2. Immobilized rat CD86 at 2 µg/ml (100 µl/well) can bind mouse CD28 Fc Chimera with a linear ranger of 6.4-160 ng/ml.

Purity

> 96 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per µg of the 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 mouse CD28/Fc is a disulfide-linked homodimer after removal of the signal peptide. The reduced monomer consists of 378 amino acids and has a predicted molecular mass of 43 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rm CD28/Fc monomer is approximately 55-60 kDa due to glycosylation.

Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

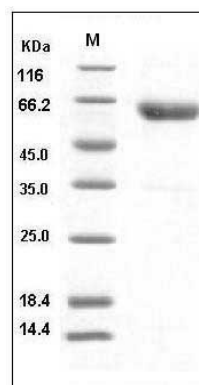
Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Mouse CD28 Protein (His & Fc Tag) SDS-PAGE