

Recombinant Mouse CTLA4/CD152 Protein (His Tag)

Catalog Number: PKSM040643

Note: Centrifuge before opening to ensure complete recovery of vial contents.

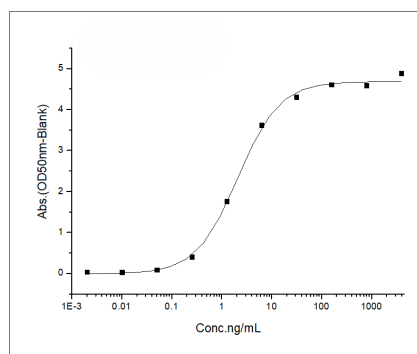
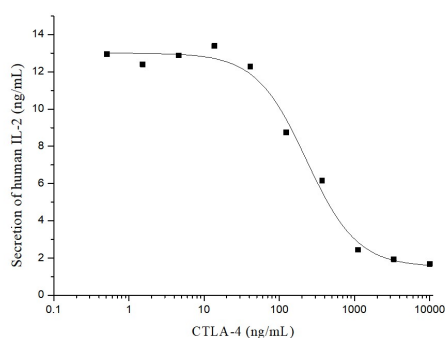
Description

Species	Mouse
Source	HEK293 Cells-derived Mouse CTLA4/CD152 protein Met 1-Phe 162, with an C-terminal His
Calculated MW	15.3 kDa
Observed MW	25-30 kDa
Accession	NP_033973.2
Bio-activity	1. Immobilized recombinant mouse CTLA4-His at 10 µg/ml (100 µl/well) can mouse CD80-Fc with a linear range of 0.78-62. 5 ng/ml. 2. Immobilized recombinant mouse CTLA4-His at 10 µg/ml (100 µl/well) can human B7-1-Fc with a linear range of 0.78-125 ng/ml.

Properties

Purity	> 98 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



Measured by its ability to inhibit IL-2 secretion by stimulated Jurkat human acute T cell leukemia cells. The ED₅₀ for this effect is 0.1-0.5µg/mL when stimulated with 1 µg/mL Recombinant Human B7-1/CD80.

Immobilized Recombinant Mouse CD80 / B7-1 Protein (Fc Tag) (Cat: PKSM040680) at 2µg/mL (100µL/well) can bind Recombinant Mouse CTLA4 / CD152 Protein (ECD,His Tag) (Cat: PKSM040643), the EC₅₀ is 1.0-3.0 ng/mL.

Background

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Cytotoxic T-lymphocyte protein 4, also known as CTLA4 and CD152, is a single-pass type I membrane protein and a member of the immunoglobulin superfamily. It is the second member of the CD28 receptor family. The ligands or counterreceptors for these two proteins are the B7 family members, CD80 (B7-1) and CD86 (B7-2). CTLA4 transmits an inhibitory signal to T cells, whereas CD28 transmits a stimulatory signal. Intracellular CTLA4 is also found in regulatory T cells and may play an important role in their functions. CD152 or cytotoxic T lymphocyte antigen-4 (CTLA-4) is an essential receptor involved in the negative regulation of T cell activation. Because of its profound inhibitory role, CD152 has been considered a sound susceptible candidate in autoimmunity and a persuasive target for cancer immunotherapy. In particular, recent evidence suggests that CD152 is also important in the homeostasis and function of a population of suppressive cells, termed regulatory T cells (Treg).

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