

Human CTLA-4 Protein (His Tag)

Catalog Number: 11159-H08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

ALPS5,CD,CD152,CELIAC3,CTLA-4,GRD4,GSE,IDDM12

Protein Construction:

A DNA sequence encoding the human CTLA4 (NP005205.2) extracellular domain(Lys36-Phe162) was fused with the a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: ≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.

Endotoxin:

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

Predicted N terminal: Lys 36

Bio Activity:

1. Immobilized Recombinant Human CD86 / B7-2 Protein (Fc Tag)(Cat:10699-H02H) at 2 µg/ml (100 µl/well) can bind Recombinant Human CTLA-4 Protein (His Tag) (Cat:11159-H08H), the EC50 is 2.6-8 ng/mL.
2. Measured by its ability to inhibit IL-2 secretion by stimulated Jurkat human acute T cell leukemia cells. The ED50 for this effect is 0.05-0.3µg/mL when stimulated with 1 µg/mL Recombinant Human B7- 1/CD80.
3. Captured Ipilimumab (68052-H001) on proA Chip can bind CTLA-4 (Cat.No.11159-H08H) with an affinity constant of 20.03nM as determined in a SPR assay (Biacore T200)(Routinely tested).
4. Loaded Ipilimumab on ProA Biosensor, can bind CTLA-4 Protein, Human, Recombinant, His Tag(Cat.No.11159-H08H) with an affinity constant of 5.15nM as determined in BLI assay (Sartorius Octet Red384) (Routinely tested).
5. Loaded Recombinant Human B7-1 Protein, hFc Tag (Cat. No. 10698-H02H) on ProA Biosensor, can bind Recombinant Human CTLA-4 Protein, His Tag (Cat. No. 11159-H08H) with an affinity constant of 2.66nM as determined in BLI assay (Sartorius Octet RED384) (Routinely tested).
6. Loaded Recombinant Human CD86 Protein, hFc Tag (Cat. No. 10699-H02H) on ProA Biosensor, can bind Recombinant Human CTLA-4 Protein, His Tag (Cat. No. 11159-H08H) with an affinity constant of 5.34nM as determined in BLI assay (Sartorius Octet RED384) (Routinely tested).

Molecular Mass:

The recombinant human CTLA4 consists of 137 amino acids and predicts a molecular mass of 14.95 kDa. It migrates as an approximately 22.67kDa and 20.84kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

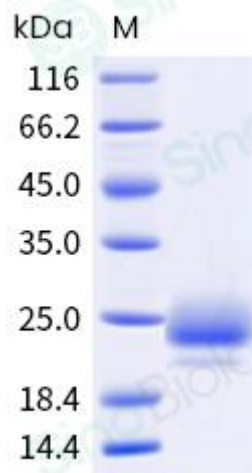
Stability & Storage:

Samples are stable for twelve months from date of receipt at -20°C to -80°C.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



For Research Use Only. Not for use in diagnostic or therapeutic procedures.

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