

For Research Use Only

Recombinant Human CTLA-4 protein (hFc Tag)



Catalog Number: Eg1004

Basic Information

Species:
Human

Purity:
>95 %, SDS-PAGE

Tag:
hFc Tag

EC50:
5-22 ng/mL

Technical Specifications

Purity:
>95 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Human CTLA-4 protein Lys36-Asp161 (Accession# P16410) with a human IgG1 Fc tag at the C-terminus.

GeneID:
1493

Accession:
P16410

Predicted Molecular Mass:
39.5 kDa

SDS-PAGE:
42-50 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Immobilized Human CD86 (Myc tag, His tag) at 0.5 μ g/mL (100 μ L/well) can bind Human CTLA-4 (hFc tag) with a linear range of 5-22 ng/mL.

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

CTLA-4, also known as CD152, belonging to the immunoglobulin superfamily, is primarily found on activated T cells and regulatory T cells (Tregs). CTLA-4 is closely related to the T-cell costimulatory CD28, and both molecules bind to B7-1 and B7-2 on antigen-presenting cells. CTLA-4 acts as a negative regulatory molecule of T-cell responses. Besides the full-length transmembrane form, CTLA-4 also exists in a truncated soluble form (sCTLA-4).

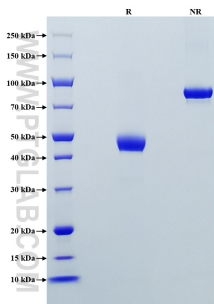
References

1. Brunet JF, et al. (1987) Nature. 328(6127):267-70.
2. Harper K, et al. (1991) J Immunol. 147(3):1037-44.
3. McCoy KD, et al. (1999) Immunol Cell Biol. 77(1):1-10.
4. Oaks MK, et al. (2000) Cell Immunol. 201(2):144-53.

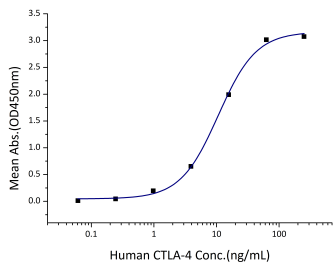
Synonyms

CTLA4, CD152, CELIAC3, CTLA 4, Cytotoxic T-lymphocyte protein 4

Selected Validation Data



Purity of Recombinant Human CTLA-4 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



Immobilized Human CD86 (Myc tag, His tag) at 0.5 μ g/mL (100 μ L/well) can bind Human CTLA-4 (hFc tag) with a linear range of 5-22 ng/mL