For Research Use Only

Recombinant Mouse CTLA-4 protein (His Tag)

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Catalog Number: Eg0632

Basic Information

ED50:
0.1-0.4 μg/mL

Species:
Mouse

Purity:
>95 %, SDS-PAGE

GeneID:
12477

Accession:
NP_033973

Technical Specifications

Purity:
>95 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/μg protein, LAL method

Source:
HEK293-derived Mouse CTLA-4 protein Glu36-Phe162 (Accession# NP_033973) with His tag at the C-terminus.

Predicted Molecular Mass:
14.8 kDa

SDS-PAGE:
18-23 kDa, reducing (R) conditions

Formulation:
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Measured by its ability to inhibit IL-2 secretion by stimulated Jurkat human acute T cell leukemia cells. The ED50 for this effect is 0.1-0.4 μg/mL when stimulated with 1 μg/mL Recombinant Human CD80 in the presence of PHA.

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ 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).

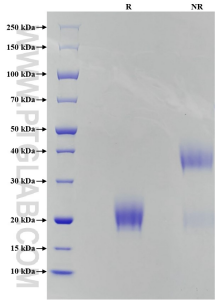
References

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.

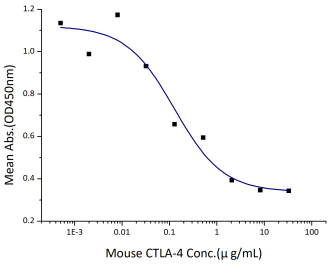
Synonyms

CD152, CELIAC3, CTLA4, CTLA-4, IDDM12

Selected Validation Data



Purity of Recombinant Mouse 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.



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For technical support and original validation data for this product please contact

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