

# Recombinant Mouse CTLA-4 protein (His Tag)

Catalog Number: Eg0632

## Basic Information

**Species:**

Mouse

**Purity:**

&gt;95 %, SDS-PAGE

**Tag:**

His Tag

**EC50:**2-9  $\mu$ g/mL

## Technical Specifications

**Purity:**

&gt;95 %, SDS-PAGE

**Endotoxin Level:**<0.1 EU/  $\mu$ g protein, LAL method**Source:**

HEK293-derived Mouse CTLA-4 protein Glu36-Phe162 (Accession# NP\_033973) with His tag at the C-terminus.

**GeneID:**

12477

**Accession:**

NP\_033973

**Predicted Molecular Mass:**

14.8 kDa

**SDS-PAGE:**

18-23 kDa, reducing (R) conditions

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

## Biological Activity

Immobilized Mouse CTLA-4 (His tag) at 0.5  $\mu$ g/mL (100  $\mu$ L/well) can bind Mouse B7-1 (Myc tag, His tag, Fc tag) with a linear range of 2-9 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).

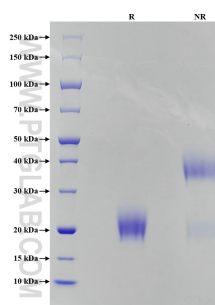
## References

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.

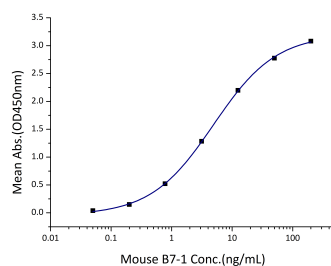
## Synonyms

CTLA-4, Ctl4, Cd152, Ctl4, Ly 56

## 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.



Immobilized Mouse CTLA-4 (His tag) at 0.5  $\mu$ g/mL (100  $\mu$  L/well) can bind B7-1 (Myc tag, His tag, Fc tag) with a linear range of 2-9 ng/mL.

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

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