

# Recombinant Rat Ctl4 Protein, hFc-tagged, Alexa Fluor 488 conjugated

**Cat. No.** Ctl4-1143RAF488    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

Alexa Fluor 488 conjugated recombinant Rat Ctl4 (Ile38-Asp161) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).

### Species

Rat

### Source

HEK293

### ProteinLength

Ile38-Asp161

### Description

CTLA-4 (Cytotoxic T-Lymphocyte Antigen 4) is also known as CD152 (Cluster of differentiation 152), is a protein receptor that downregulates the immune system. CTLA4 is a member of the immunoglobulin superfamily, which is expressed on the surface of Helper T cells and transmits an inhibitory signal to T cells. The protein contains an extracellular V domain, a transmembrane domain, and a cytoplasmic tail. Alternate splice variants, encoding different isoforms. CTLA4 is similar to the T-cell co-stimulatory protein, CD28, and both molecules bind to CD80 and CD86, also called B7-1 and B7-2 respectively, on antigen-presenting cells. 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 be important to their function. Fusion proteins of CTLA4 and antibodies (CTLA4-Ig) have been used in clinical trials for rheumatoid arthritis.

### Form

Lyophilized

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<b>Molecular Mass</b>	The protein has a calculated MW of 40.2 kDa. The protein migrates as 50-55 kDa under reducing (R) condition (SDS-PAGE).
<b>N-terminal Sequence Analysis</b>	Ile 38
<b>Endotoxin</b>	< 1.0 EU/ µg by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Characteristic</b>	Disulfide-linked homodimer Labeled with Alexa Fluor 488 via amines Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Storage</b>	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
<b>Storage Buffer</b>	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
<b>Conjugation</b>	Alexa Fluor 488

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**GENE INFORMATION**

<b>Gene Name</b>	Ctla4
<b>Official Symbol</b>	Ctla4
<b>Synonyms</b>	CTLA4; cytotoxic T-lymphocyte-associated protein 4; cytotoxic T-lymphocyte protein 4; soluble form; CD152 antigen; transmembrane form; Cd152; CTLA-4; sCTLA4
<b>Gene ID</b>	63835
<b>mRNA Refseq</b>	NM_031674
<b>Protein Refseq</b>	NP_113862
<b>UniProt ID</b>	Q62859

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