

Datasheet for ABIN6810026

CTLA4 Protein (AA 37-162) (Strep Tag)[Go to Product page](#)**3** Images

Overview

Quantity:	1 mg
Target:	CTLA4
Protein Characteristics:	AA 37-162
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CTLA4 protein is labelled with Strep Tag.

Product Details

Characteristics:	This protein carries a twin strep tag at the C-terminus. The protein has a calculated MW of 16.5 kDa. The protein migrates as 21-26 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	CTLA4
Alternative Name:	CTLA-4 (CTLA4 Products)

Target Details

Background: 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. T cell activation through the T cell receptor and CD28 leads to increased expression of CTLA-4, an inhibitory receptor for B7 Molecules. Fusion proteins of CTLA4 and antibodies (CTLA4-Ig) have been used in clinical trials for rheumatoid arthritis.

Molecular Weight: 16.5 kDa

NCBI Accession: [NP_005205](#)

Pathways: [Cancer Immune Checkpoints](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

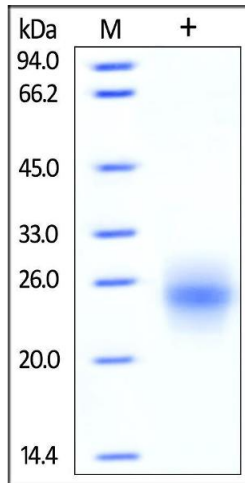
Reconstitution: Please see Certificate of Analysis for specific instructions. For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Buffer: PBS, pH 7.4

Handling Advice: Avoid repeated freeze-thaw cycles.

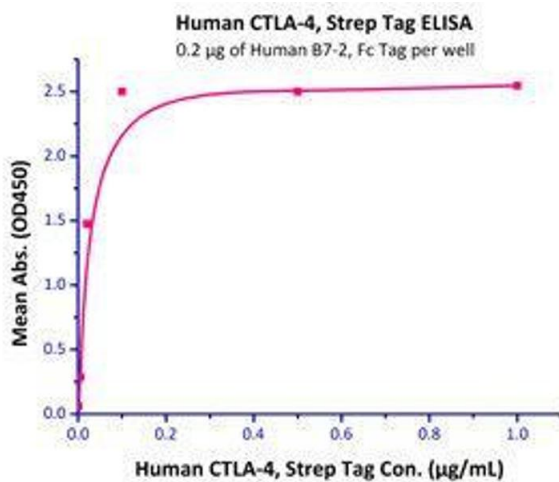
Storage: -20 °C

Storage Comment: No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).



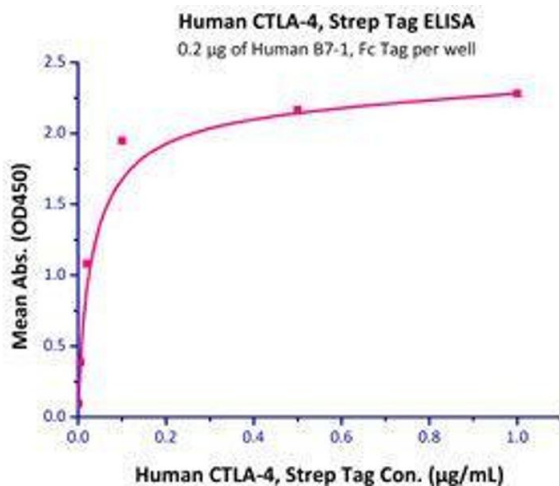
SDS-PAGE

Image 1. Human CTLA-4, Strep Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



Binding Studies

Image 2. Immobilized Recombinant Human B7-2 / CD86 Protein, With C-Fc Tag with a linear range of 1-20 ng/mL.



Binding Studies

Image 3. Immobilized Recombinant Human CD80 /B7-1 Protein, With C-Fc Tag with a linear range of 1-20 ng/mL.