

## CTLA-4 Protein, Cynomolgus/Rhesus Macaque (HEK293, His)

<b>Cat. No.:</b>	HY-P77345
<b>Synonyms:</b>	Cytotoxic T-lymphocyte protein 4; CTLA4; CD152
<b>Species:</b>	Rhesus Macaque
<b>Source:</b>	HEK293
<b>Accession:</b>	Q9BDC4 (A37-D161)
<b>Gene ID:</b>	705673
<b>Molecular Weight:</b>	Approximately 25-30 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           A M H V A Q P A V V    L A N S R G I A S F    V C E Y A S P G K A    T E V R V T V L R Q            A D S Q V T E V C A    A T Y M M G N E L T    F L D D S I C T G T    S S G N Q V N L T I            Q G L R A M D T G L    Y I C K V E L M Y P    P P Y Y M G I G N G    T Q I Y V I D P E P            C P D S D         </p>
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized recombinant cynomolgus monkey CTLA-4 at 0.5 µg/mL (100 µL/well) can bind biotinylated recombinant human B7-1. The ED <sub>50</sub> for this effect is 287.2 ng/mL.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>CTLA-4 protein functions as a primary inhibitory receptor, exerting a crucial role as a major negative regulator in T-cell responses. The distinguishing feature of CTLA-4 lies in its considerably stronger affinity for its natural B7 family ligands, CD80 and CD86, compared to the affinity of their corresponding stimulatory coreceptor, CD28. This heightened affinity enables CTLA-4 to effectively counterbalance and suppress T-cell activation, contributing to the intricate regulation of immune responses. The dynamic interplay between CTLA-4 and its ligands underscores its significance in fine-tuning the</p>
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immune system and maintaining a delicate equilibrium between activation and inhibition in T-cell-mediated immunity.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA