

## CTLA-4 Protein, Human (Biotinylated, HEK293, mFc-Avi)

Cat. No.:	HY-P78890
Synonyms:	CTLA4; CD152
Species:	Human
Source:	HEK293
Accession:	P16410 (A37-F162)
Gene ID:	1493
Molecular Weight:	50-55 kDa

### PROPERTIES

Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Anti-CTLA4 antibody at 1 µg/mL can bind Biotinylated Human CTLA4. The EC <sub>50</sub> is 10.57-15.25 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized a 0.22 µm filtered solution of PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	GMP CTLA-4, a pivotal inhibitory receptor, emerges as a principal negative regulator orchestrating T-cell responses within the intricate framework of immune modulation. This regulatory function stems from the distinctive property of GMP CTLA-4, displaying significantly heightened affinity for its natural B7 family ligands, CD80 and CD86, compared to the cognate stimulatory coreceptor CD28. This pronounced difference in binding affinity positions GMP CTLA-4 to competitively engage with CD80/B7-1 and CD86/B7.2, exerting a suppressive influence on T-cell activation and finely tuning immune responses. The homodimeric structure of GMP CTLA-4, intricately linked by disulfide bonds, further underscores its role as a molecular sentinel in immune regulation. Additionally, GMP CTLA-4 interacts with ICOSLG, contributing to its multifaceted engagement in immune checkpoint pathways.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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