

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

Cat. No.:	HY-P72958
Synonyms:	Cytotoxic T-lymphocyte associated protein 4; CTLA4; CD152
Species:	Rhesus Macaque
Source:	HEK293
Accession:	Q9BDC4 (M1-D161)
Gene ID:	705673
Molecular Weight:	Approximately 52 kDa

PROPERTIES

AA Sequence	MAC L G F Q R H K A R L N L A T R T R P Y T L L F S L L F I P V F S K 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
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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 ₂ 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	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 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.

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