

CTLA-4 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P7838
Synonyms:	rCynCytotoxic T-lymphocyte protein 4/CTLA-4, His; Cytotoxic T-lymphocyte protein 4; Cytotoxic T-lymphocyte-associated antigen 4; CTLA-4; CD152; CTLA4
Species:	Cynomolgus
Source:	HEK293
Accession:	G7PL88 (A37-S160)
Gene ID:	102115124
Molecular Weight:	17-25 kDa

PROPERTIES

AA Sequence	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
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 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 ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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, a pivotal inhibitory receptor, assumes a paramount role as a primary negative modulator of T-cell responses within the intricate landscape of immune regulation. This regulatory function hinges on the distinctive property of CTLA-4 to exhibit significantly higher affinity for its natural B7 family ligands, CD80 and CD86, in comparison to the cognate stimulatory coreceptor CD28. This pronounced difference in binding affinity underscores the capacity of CTLA-4 to outcompete CD28 for ligand engagement, thereby exerting a suppressive influence on T-cell activation and mitigating excessive immune responses.
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Caution: Product has not been fully validated for medical applications. For research use only.

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