

CTLA-4 Protein, Mouse (125a.a, HEK293, Fc)

Cat. No.:	HY-P70706
Synonyms:	Cytotoxic T-lymphocyte protein 4; Cytotoxic T-lymphocyte-associated antigen 4; CTLA-4; CD152; Ctla4
Species:	Mouse
Source:	HEK293
Accession:	P09793 (A37-D161)
Gene ID:	12477
Molecular Weight:	50-60 kDa

PROPERTIES

AA Sequence	<p>A I Q V T Q P S V V L A S S H G V A S F P C E Y S P S H N T D E V R V T V L R Q</p> <p>T N D Q M T E V C A T T F T E K N T V G F L D Y P F C S G T F N E S R V N L T I</p> <p>Q G L R A V D T G L Y L C K V E L M Y P P P Y F V G M G N G T Q I Y V I D P E P</p> <p>C P D S D</p>
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	<p>CTLA-4, a pivotal inhibitory receptor, acts as a primary negative regulator in T-cell responses, exerting its influence within the intricate network of immune modulation. This regulatory function arises from the distinct property of CTLA-4, showcasing significantly heightened affinity for its natural B7 family ligands, CD80 and CD86, in comparison to the cognate stimulatory coreceptor CD28. The homodimeric structure of CTLA-4, intricately linked by disulfide bonds, underscores its role as a molecular sentinel in immune regulation. Functionally, CTLA-4 binds avidly to CD80/B7-1 and CD86/B7.2, competitively engaging with these ligands to suppress T-cell activation and finely tune immune responses. Additionally, CTLA-4 interacts with ICOSLG, contributing to its multifaceted engagement in immune checkpoint pathways.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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