CTLA-4 Protein, Canine (HEK293, Fc)

Cat. No.:	HY-P75321
Synonyms:	Cytotoxic T-lymphocyte associated protein 4; CTLA4; CD152
Species:	Canine
Source:	HEK293
Accession:	Q9GKP2 (M1-D161)
Gene ID:	403696
Molecular Weight:	Approximately 40.1 kDa

PROPERTIES

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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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 critical inhibitory receptor, playing a pivotal role as a major negative regulator in T-cell responses. The distinguishing feature of CTLA-4 lies in its significantly 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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