

CTLA-4 Protein, Rat (HEK293, Fc)

Cat. No.:	HY-P74216
Synonyms:	Cytotoxic T-lymphocyte associated protein 4; CTLA4; CD152
Species:	Rat
Source:	HEK293
Accession:	Q62859 (M1-D161)
Gene ID:	63835
Molecular Weight:	Approximately 40.5 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.
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 operates as a key inhibitory receptor, serving as a major negative regulator in T-cell responses. Its pivotal role lies in the potent affinity CTLA-4 exhibits for its natural B7 family ligands, CD80 and CD86, a binding strength surpassing that of their counterpart stimulatory coreceptor, CD28. This heightened affinity enables CTLA-4 to effectively temper T-cell activation, forming a crucial component of the regulatory mechanisms governing immune responses. The nuanced balance between inhibitory and stimulatory signals orchestrated by CTLA-4 and its ligands plays a central role in modulating the intensity and duration of T-cell-mediated immune reactions.
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Caution: Product has not been fully validated for medical applications. For research use only.

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