

## Product Data Sheet

## CTLA-4 Protein, Rat (HEK293, His)

Cat. No.:	HY-P74215
Synonyms:	Cytotoxic T-lymphocyte associated protein 4; CTLA4; CD152
Species:	Rat
Source:	HEK293
Accession:	Q62859 (E36-D161)
Gene ID:	63835
Molecular Weight:	Approximately 21-30 kDa due to the glycosylation.

PROPERTIES	
AA Sequence	EAIQVTQPSV VLASSHGVAS FPCEYASSHN TDEVRVTVLR QTNDQVTEVC ATTFTVKNTL GFLDDPFCSG TFNESRVNLT IQGLRAADTG LYFCKVELMY PPPYFVGMGN GTQIYVIDPE PCPDSD
Biological Activity	Measured by its ability to inhibit IL-2 secretion by stimulated Jurkat human acute T cell leukemia cells. The ED <sub>50</sub> for this effect is 0.231 µg/mL when stimulated with 1 µg/mL Recombinant Human B7-1 in the presence of PHA, corresponding to a specific activity is 4.329×10 <sup>3</sup> U/mg.
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> 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.

CRIPTION	
Background	CTLA-4 protein operates as a key inhibitory receptor, serving as a major negative regulator in T-cell responses. Its pivot role lies in the potent affinity CTLA-4 exhibits for its natural B7 family ligands, CD80 and CD86, a binding strength surpa that of their counterpart stimulatory coreceptor, CD28. This heightened affinity enables CTLA-4 to effectively temper T-activation, forming a crucial component of the regulatory mechanisms governing immune responses. The nuanced bal

## Caution: Product has not been fully validated for medical applications. For research use only.

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