

Product Data Sheet

CTLA-4 Protein, Human (HEK293)

Cat. No.:	HY-P72959
Synonyms:	Cytotoxic T-lymphocyte associated protein 4; CTLA4; CD152
Species:	Human
Source:	HEK293
Accession:	P16410 (K36-D161)
Gene ID:	1493
Molecular Weight:	Approximately 13.5 kDa

Sequence MACLGFQRHK AQPAVVLASS RGIASFVCEY ASPGKATEVR VTVLRQ VTEVCAATYM MGNELTFLDD SICTGTSSGN QVNLTI AMDTGLYICK VELMYPPPYY LgIGNGTQIY VIDPEP D <td< th=""><th></th><th></th><th></th><th></th><th></th></td<>					
pearance Lyophilized powder. rmulation Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol added as protectants before lyophilization. rdotoxin Level <1 EU/µg, determined by LAL method. rconsititution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH2O. orage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (wir recommended to freeze aliquots at -20°C for extended storage.	PROPERTIES	A Q P A V V L A S S V T E V C A A T Y M A M D T G L Y I C K	R G I A S F V C E Y M G N E L T F L D D	A S P G K A T E V R S I C T G T S S G N	V T V L R Q Q V N L T I
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orage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (wi recommended to freeze aliquots at -20°C or -80°C for extended storage.	Endotoxin Level	<1 EU/µg, determined by	y LAL method.		
recommended to freeze aliquots at -20°C or -80°C for extended storage.	Reconsititution	It is not recommended to	o reconstitute to a concentra	tion less than 100 μg/mL in α	ddH ₂ O.
ipping Room temperature in continental US; may vary elsewhere.	Storage & Stability	2	,		°C for longer (with
	Shipping	Room temperature in continental US; may vary elsewhere.			

DESCRIPTION

Background

GMP CTLA-4, a pivotal inhibitory receptor, emerges as a principal negative regulator orchestrating T-cell responses within the intricate framework of immune modulation. This regulatory function stems from the distinctive property of GMP CTLA-4, displaying significantly heightened affinity for its natural B7 family ligands, CD80 and CD86, compared to the cognate stimulatory coreceptor CD28. This pronounced difference in binding affinity positions GMP CTLA-4 to competitively engage with CD80/B7-1 and CD86/B7.2, exerting a suppressive influence on T-cell activation and finely tuning immune responses. The homodimeric structure of GMP CTLA-4, intricately linked by disulfide bonds, further underscores its role as a molecular sentinel in immune regulation. Additionally, GMP CTLA-4 interacts with ICOSLG, contributing to its multifaceted

engagement in immune checkpoint pathways.

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

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