

## CTLA-4 Protein, Guinea pig (*P.pastoris*, His)

Cat. No.:	HY-P71986
Synonyms:	Cytotoxic T-lymphocyte associated protein 4; CTLA4
Species:	Others
Source:	<i>P. pastoris</i>
Accession:	H0VUB1 (A37-D161)
Gene ID:	100725760
Molecular Weight:	Approximately 18.0 kDa

### PROPERTIES

AA Sequence	<p>           A M H V A Q P A V V    L A S S R G V A S F    E C E Y A S S H N A    N E V R V T V L Q Q            V A S R T T E I C A    A T Y T V E R E L A    F P E D S A C A G T    S S G T R V N L T I            Q G L R A A D T G L    Y I C K V E L M Y P    P P Y F V G T G N G    T Q I Y V I D P E P            C P D S D         </p>
Biological Activity	The ED <sub>50</sub> as determined by its ability to bind Mouse B7-1 in functional ELISA is less than 0.4 µg/mL.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filter solution of 1xPBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	<p>CTLA-4 protein functions as a prominent inhibitory receptor, playing a crucial role in dampening T-cell responses. Its inhibitory action stems from the remarkably strong affinity CTLA-4 exhibits for its natural B7 family ligands, CD80 and CD86, surpassing the affinity of their counterpart stimulatory coreceptor, CD28. By virtue of this heightened affinity, CTLA-4 serves as a major negative regulator in the intricate orchestration of T-cell activation and immune responses. The nuanced balance between stimulatory and inhibitory signals mediated by CTLA-4 and its ligands is pivotal for maintaining immune homeostasis and preventing excessive or aberrant T-cell activation.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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