

CD28 Protein, Rhesus Macaque (HEK293, Fc)

Cat. No.:	HY-P75425
Synonyms:	CD28; T-cell-specific surface glycoprotein CD28; Tp44
Species:	Rhesus Macaque
Source:	HEK293
Accession:	Q0PDN4 (N19-P152)
Gene ID:	705313
Molecular Weight:	Approximately 55-77 kDa due to the glycosylation.

PROPERTIES

AA Sequence	<p>N K I L V K Q S P M L V A Y D N A V N L S C K Y S Y N L F S R E F R A S L H K G</p> <p>L D S A V E V C V V Y G N Y S Q Q L Q V Y S K T G F N C D G K L G N E S V T F Y</p> <p>L Q N L Y V N Q T D I Y F C K I E V M Y P P P Y L D N E K S N G T I I H V K G K</p> <p>H L C P S P L F P G P S K P</p>
Biological Activity	Measured by its binding ability in a functional ELISA. When Recombinant Rhesus Macaque CD28 is coated at 1 µg/mL (100 µL/well) can bind Recombinant Human B7-1. The ED ₅₀ for this effect is 201.9 ng/mL.
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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ 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.

DESCRIPTION

Background	<p>CD28 protein plays a pivotal role in T-cell activation, promoting cell proliferation, cytokine production, and T-cell survival. Upon ligation with TCR/CD3 and CD40L costimulation, CD28 enhances the production of IL4 and IL10 in T-cells, contributing to immune response modulation. Additionally, isoform 3 of CD28 facilitates CD40L-mediated activation of NF-kappa-B and kinases MAPK8 and PAK2 in T-cells. The protein forms homodimers through disulfide linkages and interacts with various molecules, including DUSP14, CD80/B7-1, CD86/B7-2/B70, and GRB2. Isoform 3 specifically interacts with CD40LG,</p>
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highlighting its multifaceted role in mediating immune responses and cellular signaling pathways.

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

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