

CD28 Protein, Rat (HEK293, His)

Cat. No.:	HY-P74309
Synonyms:	CD28; T-cell-specific surface glycoprotein CD28; Tp44
Species:	Rat
Source:	HEK293
Accession:	P31042 (N20-K149)
Gene ID:	25660
Molecular Weight:	The protein migrates as approximately 30-36 kDa under reducing SDS-PAGE due to glycosylation.

PROPERTIES

AA Sequence	<p>N K I L V K Q S P L L V V D N N E V S L S C R Y S Y N L L A K E F R A S L Y K G</p> <p>V N S D V E V C V G N G N F T Y Q P Q F R P N V G F N C D G N F D N E T V T F R</p> <p>L W N L D V N H 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 I K E K</p> <p>H L C H A Q T S P K</p>
Biological Activity	Immobilized Recombinant Human B7-2 Protein at 2 µg/mL (100 µL/well) can bind Recombinant Rat CD28 Protein. The ED ₅₀ for this effect is 955.5 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	CD28 Protein plays a crucial role in T-cell activation by inducing cell proliferation, cytokine production, and promoting T-cell survival. It works in conjunction with TCR/CD3 ligation and CD40L costimulation to enhance the production of IL4 and IL10 in T-cells. CD28 Protein forms a homodimer through disulfide-linkage and interacts with DUSP14. Additionally, it binds to CD80/B7-1 and CD86/B7-2/B70, and has an interaction with GRB2 (By similarity).
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Caution: Product has not been fully validated for medical applications. For research use only.

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