

## CD4 Protein, Rhesus Macaque (HEK293, His)

Cat. No.:	HY-P77616
Synonyms:	CD4 antigen (p55); CD4 molecule; CD4 receptor; CD4; CD4mut; EU3
Species:	Rhesus Macaque
Source:	HEK293
Accession:	G7N5T8 (K26-W390)
Gene ID:	/
Molecular Weight:	45-52 kDa

### PROPERTIES

Biological Activity	Immobilized Rhesus macaque CD4, His Tag at 1 $\mu$ g/ml (100 $\mu$ l/Well) on the plate. Dose response curve for Anti-CD4 Antibody, hFc Tag with the EC <sub>50</sub> of 12ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
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	CD4 protein forms disulfide-linked homodimers at the cell surface and interacts with various proteins, including LCK, PTK2/FAK1, and P4HB/PDI. It also engages with IL16, leading to CD4-dependent signaling in lymphocytes. Furthermore, CD4 interacts with MHCII alpha and beta chains, enhancing the affinity of the T-cell receptor (TCR) for peptide-MHCII. The oligomerization of CD4, particularly via Ig-like C2-type domains 2 and 3, is crucial for stable binding to MHCII and facilitates adhesion between T cells and antigen-presenting cells (APCs).
------------	---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA