

## CD3E-CD3G Heterodimer Protein, Rhesus Macaque (HEK293, Fc)

Cat. No.:	HY-P76237
Synonyms:	CD3E & CD3G; CD3 epsilon & CD3 gamma; CD3 epsilon/gamma
Species:	Rhesus Macaque
Source:	HEK293
Accession:	XP_014971302 (Q22-D117)&NP_001253854 (Q23-T113)
Gene ID:	699467&705270
Molecular Weight:	Approximately 83 (40 + 43) kDa.

### PROPERTIES

Biological Activity	Immobilized CD3E&CD3G Heterodimer Protein, at 2µg/mL (100 µL/well) can bind Bispecific BCMA×CD3 T cell-engaging Antibody. The ED <sub>50</sub> for this effect is 1.644 ng/mL when detected by Biotinylated Human BCMA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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 <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	The CD3E protein, predicted to possess various functions such as SH3 domain binding activity, identical protein binding activity, and protein heterodimerization activity, plays a crucial role in nervous system development and the positive regulation of cell adhesion. It is actively involved upstream of multiple processes, including positive regulation of T cell activation, positive regulation of cytokine production, and regulation of signal transduction. The protein is located in diverse cellular components, including dendritic spines, the external side of the plasma membrane, and immunological synapses. As part of the alpha-beta T cell receptor complex, its expression is observed in the colon and hemolymphoid system. The human ortholog of this gene, CD3E, has implications in immunodeficiency 18, highlighting its significance in immune system functionality. Biased expression is evident in tissues such as the thymus and spleen, underscoring its role in immune processes.
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**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](mailto:tech@MedChemExpress.com)

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