

## CD3D &amp; CD3E Heterodimer Protein, Cynomolgus, Recombinant (hFc &amp; His &amp; Flag)

## General Information

Synonyms:	CD3d molecule, delta (CD3-TCR complex); CD3d molecule, $\delta$ (CD3-TCR complex)
Protein Construction:	A DNA sequence encoding the cynomolgus CD3D (Q95LI8-1)(Met1-Ala105) with the C-terminal his-tagged Fc region of human IgG1 at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the cynomolgus CD3E (XP_015290838.1) (Met1-Asp117) was fused with the C-terminal flag-tagged Fc region of human IgG1 at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the CD3D&CD3E heterodimer was purified. Predicted N terminal: Phe 22 & Gln 22
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	Q95LI8&Q95LI5
Molecular Weight:	76.63 kDa (predicted); (50.99 & 40.83) kDa (reducing conditions)

## QC Testing

Biological Activity:	Immobilized SP34 Antibody at 2 $\mu\text{g}/\text{mL}$ (100 $\mu\text{L}/\text{well}$ ) can bind Recombinant Cynomolgus CD3D & CD3E Heterodimer Protein (Fc-His & Fc-Flag Tag) (Cat#TMPY-06348), the EC50 is 4-12 ng/mL.
Purity:	$\geq 95\%$ as determined by SDS-PAGE. $\geq 95\%$ as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/ $\mu\text{g}$ of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu\text{m}$ filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

## Preparation and Storage

## Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

## Stability &amp; Storage:

It is recommended to store recombinant proteins at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at  $-80^{\circ}\text{C}$ . For reconstituted protein solutions, the solution can be stored at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481