

CD3D & CD3E Heterodimer Protein, Human, Recombinant (His)

General Information

Synonyms:	CD3d molecule, delta (CD3-TCR complex);T3D;CD3d molecule, δ (CD3-TCR complex);CD3-DELTA;IMD19;CD3- δ
Protein Construction:	A DNA sequence encoding the extracellular domain (Met1-Ala105) of human CD3D (P04234-1) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the extracellular domain (Met1-Asp126) of human CD3E (P07766-1) constructed the plasmid 2. The two plasmids were co-expressed and the human CD3D/CD3E heterodimer was purified. Predicted N terminal: Phe 22 & Asp 23
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P04234-1&P07766-1
Molecular Weight:	22.75 kDa (predicted); 28.70 kDa ?20.22 kDa and 18.06 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Immobilized Recombinant Human CD3D & CD3E Heterodimer Protein (ECD, His Tag) at 2 $\mu\text{g}/\text{mL}$ (100 $\mu\text{l}/\text{well}$) can bind CD3e/CD3 epsilon Antibody, Rabbit MAb, the EC50 is 5-15 ng/mL.
Purity:	$\geq 90\%$ as determined by SDS-PAGE. $\geq 95\%$ as determined by SEC-HPLC.
Endotoxin:	$< 1.0 \text{ EU}/\mu\text{g}$ of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm 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 & Storage:

It is recommended to store recombinant proteins at -20°C to -80°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°C . For reconstituted protein solutions, the solution can be stored at -20°C to -80°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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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