
Product Data Sheet

Product Name: CD3D Human
 Cat. No.: GP23005
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms CD3d Molecule; CD3d Antigen; Delta Polypeptide (TiT3 Complex); CD3d Molecule; Delta (CD3-TCR Complex); T-Cell Receptor T3 Delta Chain; T3D; T-Cell Surface Glycoprotein CD3 Delta Chain; CD3 Antigen; Delta Subunit; OKT3; Delta Chain; CD3d Antigen; CD3 Delta; CD3-DELTA; IMD19; CD3D.

Amino Acid Sequence
 FKIPIEELED RVFVNCNTSI TWVEGTVGTL LSDITRLDLG KRILDPRGIY
 RCNGTDIYKD KESTVQVHYR MCQSCVELDP ATVALEPKSC DKTHTCPPCP
 APELLGGPSV FLFPPKPKDT LMISRTPEVT CVVVDVSHED PEVKFNWYVD
 GVEVHNAKTK PREEQYNSTY RVVSVLTVLHQDWLNGKEYK CKVSNKALPA
 PIEKTISKAK GQPREPQVYT LPPSRDELTK NQVSLTCLVK GFYPSDIAVE
 WESNGQPENN YKTTTPVLDS DGSFFLYSKL TVDKSRWQQG NVFSCSVMHE
 ALHNHYTQKS LSLSPGKHHH HHH

Formulation CD3D protein solution (0.5mg/ml) contains 10% glycerol & Phosphate buffered saline (pH7.4).

Introduction

CD3D, also known as Delta Polypeptide (TiT3 Complex), is a single-pass type 1 membrane protein. CD3D jointly with CD3-zeta, CD3-gamma, CD3-epsilon and the T-cell receptor alpha/beta and gamma/delta heterodimers, creates the T-cell receptor-CD3 complex. Once antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR-mediated signals are transferred through the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD3Z. Likewise, CD3D takes an important part in adaptive immune response and participates in thymocyte differentiation.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CD3D produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain (22-105 a.a.) and fused to a 239 aa hlgG-His-tag at C-terminus containing a total of 323 amino acids and having a molecular mass of 36.5kDa. CD3D shows multiple bands between 40-57kDa on SDS-PAGE, reducing conditions and purified by proprietary chromatographic techniques.

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