
Product Data Sheet

Product Name: CD247 Human, Sf9
 Cat. No.: GP23034
 Batch No.: 1

Product Data

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

Synonyms CD247 Molecule; T-Cell Surface Glycoprotein CD3 Zeta Chain; T-Cell Receptor T3 Zeta Chain; CD247 Antigen; CD3Z; TCRZ; T3Z; T-Cell Antigen Receptor Complex; Zeta Subunit Of CD3; CD3Z Antigen; Zeta Polypeptide (TiT3 Complex); CD3z Antigen; Zeta Polypeptide (TiT3 Complex) ; CD247 Antigen; Zeta Subunit ; TCR Zeta Chain; CD3zeta Chain; CD3-ZETA; IMD25; CD3H; CD3Q.

Amino Acid Sequence ADPRVKFSRS ADAPAYQQGQ NQLYNELNLG RREEYDVLDK RRGRDPEMGG KPQRRKNPQE GLYNELQKDK MAEAYSEIGM KGERRRGKGH DGLYQGLSTA TKDTYDALHM QALPPRHHHH HH

Formulation CD247 protein solution (0.2mg/ml) contains 20mM Tris-HCl buffer (pH 6.8), 50% glycerol, 1mM DTT, 1mM EDTA and 0.1M NaCl.

Introduction

T-cell surface glycoprotein CD3 zeta chain (CD247) is a member of the CD3Z/FCER1G family. CD247 is T-cell receptor zeta, which along with T-cell receptor alpha/beta and gamma/delta heterodimers, and also with CD3-gamma, -delta and -epsilon, creates the T-cell receptor-CD3 complex. The zeta chain has a central role in coupling antigen recognition to several intracellular signal-transduction pathways. Low expression of the CD247 antigen causes impaired immune response.

Stability

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

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

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CD247 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 122 amino acids (52-164a.a.) and having a molecular mass of 14.1kDa. (Molecular size on SDS-PAGE will appear at approximately 13.5-18kDa). CD247 is expressed with an 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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