

## CD247 Human

**Description:** CD247 Human Recombinant produced in E. coli is a single polypeptide chain containing 136 amino acids (52-164) and having a molecular mass of 15.4kDa. CD247 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-1342

**Synonyms:** T-cell surface glycoprotein CD3 zeta chain, T-cell receptor T3 zeta chain, CD247, CD3Z, T3Z, TCRZ, CD3H, CD3Q, CD3-ZETA.

For research use only.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SGLVPRGSH MGSRVKFSRS ADAPAYQQGQ  
NQLYNELNLG RREEYDVLDK RRGRDPEMGG KPQRRKNPQE GLYNELQKDK MAEAYSEIGM  
KGERRRGKGH DGLYQGLSTA TKD TYDALHM QALPPR.

**Purity:** Greater than 90% as determined by SDS-PAGE.

**Formulation:**

The CD247 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.

**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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**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.

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