

## Recombinant Human CD247, His-tagged

**Cat. No.** CD247-7090H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CD247 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	52-164aa
<b>Description</b>	T-cell surface glycoprotein CD3 zeta chain, also known as CD247, belongs to the CD3Z/FCER1G family. CD247 is T-cell receptor zeta, which together with T-cell receptor alpha/beta and gamma/delta heterodimers, and with CD3-gamma, -delta and -epsilon, forms the T-cell receptor-CD3 complex. The zeta chain plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. Low expression of the antigen results in impaired immune response.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
<b>Molecular Mass</b>	15.4kDa (136aa)
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSRVKFSRS ADAPAYQQGQ NQLYNELNLG RREEYDVLDK RRGRDPEMGG KPQRRKNPQE GLYNELQKDK MAEAYSEIGM KGERRRGKGGH DGLYQGLSTA TKD TYDALHM QALPPR

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<b>Purity</b>	>90% by SDS - PAGE
<b>Applications</b>	SDS-PAGE
<b>Storage</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	0.5 mg/ml

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CD247</a> <a href="#">CD247 molecule [ Homo sapiens ]</a>
<b>Official Symbol</b>	CD247
<b>Synonyms</b>	CD247; CD247 molecule; CD3Z, CD3z antigen, zeta polypeptide (TiT3 complex) , CD247 antigen; T-cell surface glycoprotein CD3 zeta chain; CD3H; CD3Q; CD3zeta chain; TCR zeta chain; CD247 antigen, zeta subunit; T-cell receptor T3 zeta chain; CD3Z antigen, zeta polypeptide (TiT3 complex); T-cell antigen receptor complex, zeta subunit of CD3; T3Z; CD3Z; TCRZ; CD3-ZETA;
<b>Gene ID</b>	<a href="#">919</a>
<b>mRNA Refseq</b>	<a href="#">NM_000734</a>
<b>Protein Refseq</b>	<a href="#">NP_000725</a>
<b>MIM</b>	<a href="#">186780</a>
<b>UniProt ID</b>	<a href="#">P20963</a>

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<b>Chromosome Location</b>	1q22-q25
<b>Pathway</b>	Adaptive Immune System, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Costimulation by the CD28 family, organism-specific biosystem; Disease, organism-specific biosystem; Downstream TCR signaling, organism-specific biosystem;
<b>Function</b>	identical protein binding; protein binding; protein homodimerization activity; receptor activity; transmembrane signaling receptor activity;

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