CD247 (Human) Recombinant Protein

Catalog # P9673 Size 2 x 10 ug

Specification

Product Description	Human CD247 (P20963, 52 a.a. - 164 a.a.) partial recombinant protein with His tag at N-terminus expressed in *Escherichia coli*.
Sequence	MGSSHHHHHHSSGLVPRGSHMGSRVKFSRSADAPAYQQGQNQLYNELNLGRREEYDVLDKRR GRDPEMGGKPQRRKNPQEGLYNELQKDKMAEAYSEIGMKGERRRGKGHDGLYQGLSTATKDTY DALHMQALPPR
Host	Escherichia coli
Theoretical MW (kDa)	15.4
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purity	> 90.0% by SDS-PAGE
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In 20mM Tris-HCl pH 8.0 (1 mM DTT, 0.15 M NaCl and 10% glycerol)
Storage Instruction	Store at 2°C to 8°C for 2-4 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — CD247

Entrez GeneID	919

Protein Accession#	P20963
Gene Name	CD247
Gene Alias	CD3-ZETA, CD3H, CD3Q, CD3Z, T3Z, TCRZ
Gene Description	CD247 molecule
Omim ID	186780 610163
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene 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. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq
Other Designations	CD247 antigen, zeta subunit|CD3Z antigen, zeta polypeptide (TiT3 complex)|OTTHUMP00000032544|T-cell antigen receptor complex, zeta subunit of CD3|T-cell receptor T3 zeta chain|T-cell receptor zeta chain|T-cell surface glycoprotein CD3 zeta chain

Pathway

- Natural killer cell mediated cytotoxicity
- T cell receptor signaling pathway

Disease

- Arthritis
- Genetic Predisposition to Disease
- Hypertension
- Lupus Erythematosus
- Osteoporosis
- Scleroderma