

Recombinant Human CD3G, His-tagged

Cat. No. CD3G-7556H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human CD3G protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	23-116aa
Antigen Description	The protein encoded by this gene is the CD3-gamma polypeptide, which together with CD3-epsilon, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. Defects in this gene are associated with T cell immunodeficiency.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol
Molecular Mass	13.1 kDa (117aa)
AA Sequence	MGSSHHHHHH SGLVPRGSH MGSQSIKGNH LVKVYDYQED GSVLLTCDAE AKNITWFKDG KMIGFLTEDK KKWNLGNAK DPRGMYQCKG SQNKSKPLQV YYRMCQNCIE LNAATIS

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Purity	>90% as determined by SDS - PAGE
Applications	SDS-PAGE
Storage	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.
Concentration	1 mg/ml

GENE INFORMATION

Gene Name	CD3G CD3g molecule, gamma (CD3-TCR complex) [Homo sapiens]
Official Symbol	CD3G
Synonyms	CD3G; CD3g molecule, gamma (CD3-TCR complex); CD3g antigen, gamma polypeptide (TiT3 complex); T-cell surface glycoprotein CD3 gamma chain; T-cell receptor T3 gamma chain; CD3g molecule, epsilon (CD3-TCR complex); T-cell antigen receptor complex, gamma subunit of T3; T3G; CD3-GAMMA; FLJ17620; FLJ17664; FLJ79544; FLJ94613; MGC138597;
Gene ID	917
mRNA Refseq	NM_000073
Protein Refseq	NP_000064
UniProt ID	P09693
Chromosome Location	11q23

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Pathway

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; Downstream TCR signaling, organism-specific biosystem; Downstream signaling in naive CD8+ T cells, organism-specific biosystem;

Function

T cell receptor binding; protein heterodimerization activity; receptor activity; receptor signaling complex scaffold activity; transmembrane signaling receptor activity;

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