



**Catalog Number:** PR27317

**Product Type:** Recombinant Protein

**Source:** E. Coli

**Amino Acid Sequence:** MGSSHHHHHH SGLVPRGSH MGSQSIKGNH LVKVYDYQED GSVLLTCDAE AKNITWFKDG KMIGFLTEDK KKWNLGSNAK DPRGMYQCKG SQNKSKPLQV YYRMCQNCIE LNAATIS.

**Description/Molecular Mass:** CD3-gamma polypeptide is encoded by CD3 Gamma (CD3G) which together with CD3-epsilon, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, configures the T-cell receptor-CD3 complex. The T-cell receptor-CD3 complex takes part in coupling antigen recognition to numerous intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. Deficiencies in this gene are associated with T cell immunodeficiency.

**Purity:** CD3G Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 117 amino acids (23-116a.a.) and having a molecular mass of 13.1kDa. CD3G is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.  
Greater than 90.0% as determined by:  
(a) Analysis by SDS-PAGE.

**Format:** CD3G protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.

**Storage:** 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.

### FOR RESEARCH USE ONLY

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Neuromics • 5325 West 74<sup>th</sup> Street, Suite 8 • Edina, MN 55439  
phone 866-350-1500 • fax 612-677-3976 • e-mail [pshuster@neuromics.com](mailto:pshuster@neuromics.com)