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## Product Data Sheet

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Product Name: CD3G Protein  
 Cat. No.: GP23047  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	T-cell surface glycoprotein CD3 gamma chain; CD3-GAMMA; T3G; CD3G.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSQSIKGNH LVKVYDYQED GSVLLTCDAE AKNITWFKDG KMIGFLTEDK KKWNLGSNAK DPRGM YQCKG SQNKSKPLQV YYRMCQNCIE LNAATIS.		
Formulation	CD3G protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.		

### Introduction

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.

### 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.

### Background

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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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