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## Product Data Sheet

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Product Name: CGREF1 Human  
 Cat. No.: GP23137  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cell Growth Regulator With EF-Hand Domain 1; Cell GrowthRegulatory Gene 11 Protein; Hydrophobestin; CGR11; Cell Growth Regulator WithEF Hand Domain Protein 1; Cell Growth Regulator With EF Hand Domain 1; Cellgrowth regulator with EF hand domain protein 1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSAPKDGVT RPDSEVQHQL LPNPFQPGQE QLGLLQSYLK GLGRTEVQLEHLSREQVLLY LFALHDYDQS GQLDGLELLS MLTAALAPGA ANSPTTNPVI LIVDKVLETQ DLNGDGLMTPAELINFPGVA LRHVEPGEPL APSPQEPQAV GRQSLLAKSP LRQETQEAPG PREEAKGQVE ARRESLDPVQEPGGQAEADG DVPGPRGEAE GQAEAKGDAP GPRGEAGGQA EAEGDAPGPR GEAGGQAEAR ENGEEAKELPGETLESKNTQ NDFEVHIVQV ENDEI.		
Formulation	CGREF1 protein solution (0.5mg/ml) containing PhosphateBuffered Saline (pH7.4).		

### Introduction

Cell Growth Regulator with EF-Hand Domain 1, also known as CGREF1 is a secreted calcium ion binding protein. CGREF1 includes two EF-hand domains & both EF-hands are essential for function. CGREF1 is most likely digested extracellularly by an unfamiliar serine protease generating extremely hydrophobic bioactive peptides. CGREF1 mediates cell-cell adhesion in a calcium-dependent manner. In addition, CGREF1 is capable to inhibit growth in more than a few cell lines.

### 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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

CGREF1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 305 amino acids (20-301 a.a) and having a molecular mass of 32.3kDa.

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