

# Recombinant human CGREF1 protein

Catalog Number: ATGP2921

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

20-301aa

**UniProt No.**

Q99674

**NCBI Accession No.**

AAH34764

**Alternative Names**

Cell growth regulator with EF-hand domain 1, Cell growth regulator with EF-hand domain 1, CGR11

## PRODUCT SPECIFICATION

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**Molecular Weight**

32.3 kDa (305aa) confirmed by MALDI-TOF

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4)

**Purity**

&gt; 85% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**Description**

CGREF1, also known as cell growth regulator with EF-hand domain 1, is a secreted calcium ion binding protein. This protein contains two EF-hand domains and both EF-hands are required for function. It is probably digested extracellularly by an unknown serine protease generating extremely hydrophobic bioactive peptides. It mediates cell-cell adhesion in a calcium-dependent manner. In addition, CGREF1 is able to inhibit growth in several cell lines. Recombinant human CGREF1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

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## Amino acid Sequence

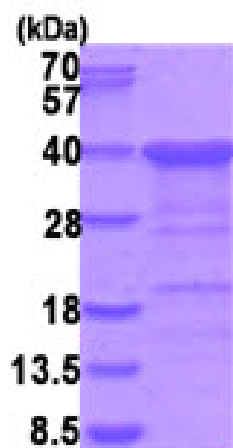
MGSSHHHHHH SSGLVPRGSH MGSAPKDGVT RPDSEVQHQL LPNPFQPGQE QLGLLQSYLK GLGRTEVQLE HLSREQVLLY  
LFALHDYDQS GQLDGLELLS MLTAALAPGA ANSPPTNPVI LIVDKVLETQ DLNGDGLMTP AELINFPGVA LRHVEPGEPL  
APSPQEPQAV GRQSLAKSP LRQETQEAPG PREEAKGQVE ARRESLDPVQ EPGGQAEADG DVPGPRGEAE GQAEAKGDAP  
GPRGEAGGQA EAEGDAPGPR GEAGGQAEAR ENGEEAKELP GETLESKNTQ NDFEVHIVQV ENDEI

## General References

Dolcino M. et al. (2012) Clin Dev Immunol. 2012:198956.  
Madden SL. D.H. et al. (1996) Cancer Res. 56:5384-5390.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)