

## Recombinant Human CGREF1, His-tagged

Cat. No. CGREF1-66H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human Cell Growth Regulator with EF Hand Domain Protein 1/CGREF1 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Ala20-Ile301) of Human CGREF1 fused with a polyhistidine tag at the C-terminus.

**Species** Human

**Source** HEK293

**ProteinLength** 20-301 a.a.

**Description** Cell Growth Regulator with EF Hand Domain Protein 1 (CGREF1) is a secreted calcium ion binding protein. CGREF1 contains two EF-hand domains and both EF-hands are required for function. Human CGREF1 is synthesized as a 301 amino acid precursor that contains a 19 amino acid signal sequence, and a 282 amino acid mature chain. CGREF1 is probably digested extracellularly by an unknown serine protease generating extremely hydrophobic bioactive peptides. CGREF1 mediates cell-cell adhesion in a calcium-dependent manner. In addition, CGREF1 is able to inhibit growth in several cell lines.

**AA Sequence** APKDGVTRPDSEVQHQLLPNPFQPGQEQLGLLQSYLKGLGRTEVQLEHLSREQVLL YLFALHDYD QSGQLDGLELLSMLTAALAPGAANSPTTNPVILIVDKVLETQDLNGDG LMTPAELINFPGVALRH VEPGEPLAPSPQEPQAVGRQSLAKSPLRQETQEAPGPR EEAKGQVEARRESLDPVQEPGGQAEA DGDVPGPRGEAEGQAEAKGDAPGPRGE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AGGQAEAEAGDAPGPRGEAGGQAEARENGEEAKELPGET LESKNTQNDFEVHIVQ  
 VENDEIVDHHHHHHH

**Endotoxin** Less than 0.1 ng/μg (1 IEU/μg).

**Purity** Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

## GENE INFORMATION

**Gene Name** [CGREF1 cell growth regulator with EF-hand domain 1 \[ Homo sapiens \]](#)

**Official Symbol** [CGREF1](#)

**Synonyms** [CGREF1](#); cell growth regulator with EF-hand domain 1; cell growth regulator with EF hand domain protein 1; [CGR11](#); hydrophobestin; cell growth regulatory gene 11 protein; cell growth regulator with EF hand domain 1;

**Gene ID** [10669](#)

**mRNA Refseq** [NM\\_001166239](#)

**Protein Refseq** [NP\\_001159711](#)

**MIM** [606137](#)

**UniProt ID** [Q99674](#)

**Chromosome Location** 2p23.3

**Function** calcium ion binding;

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