

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	APKDGVTSPDSEVQHQLLPNPFQPGQEQLGLLQSYLKGLGRTEVQLEHLSREQVLL YLFALHDYD QSGQLDGLELLSMLTAALAPGAANSPTTNPVILIVDKVLETQDLNGDG LMTPAELINFPGVALRH VEPGEPLAPSPQEPQAVGRQSLLAKSPLRQETQEAPGPR EEAKGQVEARRESLDPVQEPGGQAEA DGDVPGPRGEAEGQAEAKGDAPGPRGE

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AGGQAEAEGDAPGPRGEAGGQAEARENGEEAKELPGET LESKNTQNDFEVHIVQ
VENDEIVDHHHHHH

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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