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Datasheet for ABIN1691476

CGREF1 Protein (AA 20-301) (His tag)

Overview

Quantity:	50 µg
Target:	CGREF1
Protein Characteristics:	AA 20-301
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CGREF1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CGREF1/CGR11 (C-6His)
Sequence:	APKDGVTRPD SEVQHQLLPN PFQPGQEQLG LLQSYLKGLG RTEVQLEHLS REQVLLYLFA LHDYDQSGQL DGLELLSMLT AALAPGAANS PTTNPVILIV DKVLETQDLN GDGLMTPAEL INFPGVALRH VEPGEPLAPS PQEPQAVGRQ SLLAKSPLRQ ETQEAPGPRE EAKGQVEARR ESLDPVQEPG GQAEADGDVP GPRGEAEGQA EAKGDAPGPR GEAGGQAEAE GDAPGPRGEA GGQAEARENG EEAKELPGET LESKNTQNDF EVHIVQVEND EIVDHHHHHH
Characteristics:	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.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered

Product Details

Endotoxin Level: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test

Target Details

Target: CGREF1

Alternative Name: CGREF1 ([CGREF1 Products](#))

Sub Type: Fusionprotein

Background: 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.

Alternative Names: Cell Growth Regulator with EF Hand Domain Protein 1, Cell Growth Regulatory Gene 11 Protein, Hydrophobestin, CGREF1, CGR11

Molecular Weight: 30.9 kDa

UniProt: [Q99674](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 μg/mL.
Dissolve the lyophilized protein in ddH₂O.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Lyophilized from a 0.2 μm filtered solution of 20 mM TrisHCl, 150 mM NaCl, 1 mM CaCl₂, pH 7.5.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Storage: 4 °C/-20 °C/-80 °C

Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Handling

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 3 months