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Recombinant Human CGREF1/CGR11 Protein (His Tag)

Catalog No. PKSH032243

Description

Synonyms	Cell Growth Regulator with EF Hand Domain Protein 1; Cell Growth Regulatory Gene 11 Protein; Hydrophobestin; CGREF1; CGR11
Species	Human
Expression_host	Human Cells
Sequence	Ala20-Ile301
Accession	Q99674
Mol_Mass	30.9 kDa
AP_Mol_Mass	17-36 kDa
Tag	C-6His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM TrisHCl,150mM NaCl,1mM GaCl2,pH7.5.
Reconstitution	Please refer to the printed manual for detailed information.

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.

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