

Recombinant Full Length Human RASGRF1 Protein, C-Flag-tagged

Cat. No. RASGRF1-1138HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human RASGRF1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a guanine nucleotide exchange factor (GEF) similar to the <i>Saccharomyces cerevisiae</i> CDC25 gene product. Functional analysis has demonstrated that this protein stimulates the dissociation of GDP from RAS protein. The studies of the similar gene in mouse suggested that the Ras-GEF activity of this protein in brain can be activated by Ca ²⁺ influx, muscarinic receptors, and G protein beta-gamma subunit. Mouse studies also indicated that the Ras-GEF signaling pathway mediated by this protein may be important for long-term memory. Alternatively spliced transcript variants encoding distinct isoforms have been reported.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	145.1 kDa
AA Sequence	MQKGIRLNDGHVASLGLLARKDGRKGYLSKRSSDNTKWQTKWFALLQNLLFYFES DSSSRPSGLYLLEG CVCDRAPSPKPALSAKEPLEKQHYFTVNF SHENQKALELRTE DAKDCDEWVAIAHASYRTLATEHEALM QKYLHLLQIVETEKTVAKQLRQQIEDGEI

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EIERLKAEITSLLKDNERIQSTQTVAPNDESDIKKIKKVQ SFLRGWLCRRKWKTIIQD
YIRSPHADSMRKRNQVVFMSLEAEAYVQQLHILVNNFLRPLRMAASSKKPP ITHDD
VSSIFLNSETIMFLHQIFYQGLKARISSWPTLVLADLFDILLPMLNIYQEFVRNHQYSLQ
ILAHC KQNRDFDKLLKHYEAKPDCEERTLETFLTYPMFQIPRYILTLHELLAHTPHEH
VERNSLDYAKSKLEELS RIMHDEVSETENIRKNLAIERMIEGCEILLDTSQTFVRQGS
LIQVPMSEK GKITRGRLGSLSLKKEGER QCFLFSKHLICTRGSGGKLHLTKNGVISLI
DCTLLEPESTEEEEAKGSGQDIDHLDKIGVEPKDSPPF TVILVASSRQEKAAWTSDI
SQCVDNIRCNGLMNNAFEENSKVTVPQMIKRTREGTREAEMSRSDASLYCD DVDI
RFSKTMNSCKVLQIRYASVERLLERLTDLRFLSIDFLNTHLSYRVFTTAIVLDKLITIIY
KKPIS AIPARWLRSLELLFASGQNNKLLYGEPPKSPRATRKFSPPPLSITKTSSPSR
RRKLSLNIPIITGGKAL DLAALSCNSNGYTSMYSAMSPFSKATLDTSKLYVSSSFTNK
IPDEGDTTPEKPEDPSALSKQSSEVSMRE ESDIDQNQSDGDTTETSPTKSPTTPKS
VKNKNSSEFPLFSYNGVVMVMTSCRELDNNRSALSAASAFAIAT AGANEGTPNKEY
RRMSLASAGFPDQDQNGDKEFVIRRAATNRVLNVLRHVWSKHSQDFETNDELKCK
VI GFLEEVMDPELLTQERKAAANIIRTLTQEDPGDNQITLEEITQMAEGVKAEPFEN
HSALEIAEQTLTD HLVFKKIPYEEFFGQGWMLKLEKNERTPYIMKTTKHFNDISNLIAS
EIIRNEDINARVSAIEKWVAVADIC RCLHNYNAVLEITSSMNRSAIFRLKKTWLKVSQK
TKALIDKLQKLVSSEGRFKNLREALKNCDPPCVPYL GMYLTDLAFIEEGTPNYTEDG
LVNFSKMRMISHIIREIRQFQQTAYKIEHQAKVTQYLLDQSFVMDEESL
YESSLRIEPLPTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.

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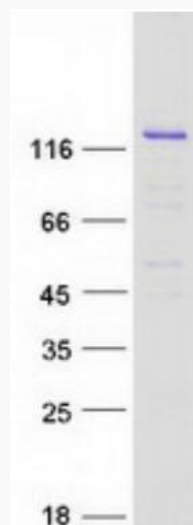
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Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Focal adhesion, MAPK signaling pathway
Full Length	Full L.
GENE INFORMATION	
Gene Name	RASGRF1 Ras protein specific guanine nucleotide releasing factor 1 [Homo sapiens (human)]
Official Symbol	RASGRF1
Synonyms	GNRP; GRF1; CDC25; GRF55; CDC25L; H-GRF55; PP13187; ras-GRF1
Gene ID	5923
mRNA Refseq	NM_002891.6
Protein Refseq	NP_002882.3
MIM	606600
UniProt ID	Q13972

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Coomassie blue staining of purified RASGRF1 protein.

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