

Recombinant Human RASGRF1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. RASGRF1-2036H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RASGRF1 MS Standard C13 and N15-labeled recombinant protein (NP_002882) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	145.1 kDa
AA Sequence	MQKGIRLNDGHVASLGLLARKDGRKGYLSKRSSDNTKWQTKWFALLQNLLFYFES DSSSRPSGLYLLEGVCVCDRAPSPKPALSAKEPLEKQHYFTVNFSHENQKALELRTE DAKDCDEWVAAIAHASRYRTLATEHEALMQKYLHLLQIVETEKTVAKQLRQQIEDGEIE IERLKAEITSLKDNRIQSTQTVAPNDESDIKKIKKVQSFLRGWLCRRKWKTIIQDYI

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RSPHADSMRKRNQVVFMSLEAEAEYVQQLHILVNNFLRPLRMAASSKKPPITHDDV
 SSIFLNSETIMFLHQIFYQGLKARISSWPTLVLADLFDILLPMLNIYQEFVRNHQYSLQI
 LAHCKQNRDFDKLLKHYEAKPDCEERTLETFLTYPMFQIPRYILTLHELLAHTPHEHV
 ERNSLDYAKSKLEELSRIMHDEVSETENIRKNLAIERMIEGCEILLDTSQTFVRQGSLI
 QVPMSEKKGKITRGRLGSLSLKKEGERQCFLFSKHLICTRGSGGKLHLTKNGVISLID
 CTLLPEESTEEEEAKGSGQDIDHLDKIGVEPKDSPPTVILVASSRQEKAAWTSDIS
 QCVDNIRCNGLMMAFEENSKVTVPMIKRTREGTREAEMSRSDASLYCDDVDIRF
 SKTMNSCKVLQIRYASVERLLERLTDLRFLSIDFLNTFLHSYRVFTTAIVVLDKLITYKK
 PISAIPARWLRSLELLFASGQNNKLLYGEPKSPRATRKFSPPPLSITKTSSPSRRR
 KLSLNIPIITGGKALDLAALSCNSNGYTSMYSAMSPFSKATLDTSKLYVSSSFTNKIPD
 EGDTPPEKPEDPSALSKQSSEVSMREESDIDQNQSDGDTETSPTKSPTTPKSVKN
 KNSSEFPLFSYNNGVMTSCRELDNNRSALSAASAFAIATAGANEGTPNKEKYRRM
 SLASAGFPPDQRNGDKEFVIRRAATNRVLNVLRHWVSKHSQDFETNDELKCKVIGF
 LEEVMHDPELLTQERKAAANIIRTLTQEDPGDNQITLEEITQMAEGVKAEPFENHSAL
 EIAEQLTLLDHLVFKKIPYEEFFGQGWMKLEKNERTPYIMKTTKHFNDISNLIASEIIRN
 EDINARVSAIEKWVAVADICRCLHNYNAVLEITSSMNRSAIFRLKKTWLKVSQTKALI
 DKLQKLVSSEGRFKNLREALKNCDPPCPYLGMYLTDLAFIEEGTPNYTEDGLVNFS
 KMRMISHIIREIRQFQQTAYKIEHQAKVTQYLLDQSFVMDEESLYESSLRIEPKLPTR
 TRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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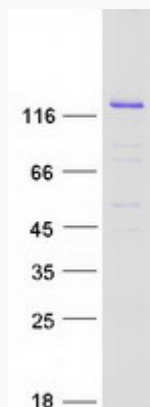
GENE INFORMATION

Gene Name	RASGRF1 Ras protein-specific guanine nucleotide-releasing factor 1 [Homo sapiens (human)]
Official Symbol	RASGRF1
Synonyms	RASGRF1; Ras protein-specific guanine nucleotide-releasing factor 1; GRF1; ras-specific guanine nucleotide-releasing factor 1; CDC25; CDC25L; GNRP; GRF55; H GRF55; PP13187; guanine nucleotide exchange factor; guanine nucleotide-releasing protein; guanine nucleotide-releasing factor 1; guanine nucleotide-releasing factor, 55 kD; Ras-specific nucleotide exchange factor CDC25; Ras-specific guanine nucleotide-releasing factor, CDC25 homolog; H-GRF55; ras-GRF1;
Gene ID	5923
mRNA Refseq	NM_002891
Protein Refseq	NP_002882
MIM	606600
UniProt ID	Q13972

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SDS-PAGE

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