

Recombinant Human RIC8A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. RIC8A-2892H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RIC8A MS Standard C13 and N15-labeled recombinant protein (NP_068751) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Guanine nucleotide exchange factor (GEF), which can activate some, but not all, G-alpha proteins. Able to activate GNAI1, GNAO1 and GNAQ, but not GNAS by exchanging bound GDP for free GTP. Involved in regulation of microtubule pulling forces during mitotic movement of chromosomes by stimulating G(i)-alpha protein, possibly leading to release G(i)-alpha-GTP and NuMA proteins from the NuMA-GPSM2-G(i)-alpha-GDP complex. Also acts as an activator for G(q)-alpha (GNAQ) protein by enhancing the G(q)-coupled receptor-mediated ERK activation.
Molecular Mass	60.2 kDa
AA Sequence	MEPRAVAEAVETGEEDVIMEALRSYNQEHSQSFTFDDAQQEDRKRLAELLVSVLEQ GLPPSHRVIWLQSVRILSRDRNCLDPFTSRQSLQALACYADISVSEGSVPESADMDV VLESCLKCLCNLVLSSPVAQMLAAEARLVVKLTERVGLYRERSFPHDVQFFDLRLFL TALRTDVRQQLFQELKGVRLTDTLELTGVTPEGNPPPTLLPSQETERAMEILKVLF NITLDSIKGEVDEEDAALYRHLGTLLRHCVMIATAGDRTEEFHGHAVNLLGNLPLKCL DVLLTLEPHGDSTEFMGVNMDVIRALLIFLEKRLHKTHRLKESVAPVLSVLTECARMH

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RPARKFLKAQGWPPPQVLPPLRDVTRTRPEVGEMLRNKLVRMLTHLDTDVKRVAEE
FLFVLCSESVPRFIKYTGYNAAAGLLAARGLMAGGRPEGQYSEDEDTDTDEYKEAK
ASINPVTGRVEEKPPNPMEGMTEEQKEHEAMKLVTFDKLSRNRVIQPMGMSPRG
HLTSLQDAMCETMEQQLSSDPDSDPDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.

GENE INFORMATION

Gene Name RIC8A RIC8 guanine nucleotide exchange factor A [Homo sapiens (human)]

Official Symbol RIC8A

Synonyms RIC8A; resistance to inhibitors of cholinesterase 8 homolog A (C. elegans); synembryn-A; synembryn; RIC8; MGC104517; MGC131931; MGC148073; MGC148074;

Gene ID 60626

mRNA Refseq NM_021932

Protein Refseq NP_068751

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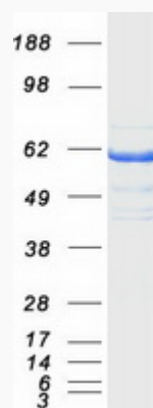
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MIM 609146

UniProt ID Q9NPQ8

SDS-PAGE



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