

Product datasheet for PH311359

RIC8 (RIC8A) (NM_021932) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	RIC8A MS Standard C13 and N15-labeled recombinant protein (NP_068751)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211359
Predicted MW:	60.2 kDa
Protein Sequence:	>RC211359 representing NM_021932 Red=Cloning site Green=Tags(s)

MEPRAVAEAVETGEEDVIMEALRSYNQEHQSFTFDDAQQEDRKRLAELLVSVLEQGLPPSHRVIWLQSV
RILSRDRNCLDPFTSRQSLQALACYADISVSEGSVPESADMVLESLKCLCNLVLSSPVAQMLAAEARL
VVKLTERVGLYRERSFPHDVQFFDLRLLFLLTALRTDVRQQLFQELKGVRLTDTLELTLGVTPEGNPPP
TLLPSQETERAMEILKVLFNITLDSIKGEVDEEDAALYRHLGTLRHCVMATAGDRTEEFHGHAVNLLG
NLPLKCLDVLLTLEPHGDSTEFMGVNMDVIRALLIFLEKRLHKTHRLKESVAPVLSVTECARMHRPARK
FLKAQGWPPPQVLPPLRDVTRPEVGEMLRNKLVRMLTHLDTDVKRVAAEFLFVLCSESVPRIKYTYG
NAAGLLAARGLMAGGRPEGQYSEDEDTDTDEYKEAKASINPVTGRVEEKPPNPMEGMTEEQKEHEAMKLV
TMFDKLSRNRVIQPMGMSPRGHLTSLQDAMCETMEQQLSSDPDSDPD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

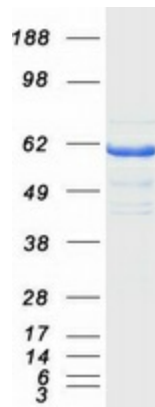
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_068751</u>
RefSeq Size:	2714
RefSeq ORF:	1611



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Synonyms:	RIC8
Locus ID:	60626
UniProt ID:	Q9NPQ8
Cytogenetics:	11p15.5
Summary:	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 (By similarity). Also acts as an activator for G(q)-alpha (GNAQ) protein by enhancing the G(q)-coupled receptor-mediated ERK activation.[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified RIC8A protein (Cat# [TP311359]). The protein was produced from HEK293T cells transfected with RIC8A cDNA clone (Cat# [RC211359]) using MegaTran 2.0 (Cat# [TT210002]).