

Recombinant Mouse Rasgrp1 Protein, Myc/DDK-tagged

Cat. No. Rasgrp1-5389M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length RAS guanyl releasing protein 1 (Rasgrp1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Functions as a calcium- and diacylglycerol (DAG)-regulated nucleotide exchange factor specifically activating Ras through the exchange of bound GDP for GTP. Activates the Erk/MAP kinase cascade. Regulates T-cell/B-cell development, homeostasis and differentiation by coupling T-lymphocyte/B-lymphocyte antigen receptors to Ras. Regulates NK cell cytotoxicity and ITAM-dependent cytokine production by activation of Ras-mediated ERK and JNK pathways. Functions in mast cell degranulation and cytokine secretion, regulating FcERI-evoked allergic responses. May also function in differentiation of other cell types. Proto-oncogene, which promotes T-cell lymphomagenesis when its expression is deregulated.
Molecular Mass	90.8 kDa
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 after receiving vials.

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Concentration	>50 µg/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Rasgrp1 RAS guanyl releasing protein 1 [Mus musculus (house mouse)]
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Official Symbol	Rasgrp1
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Synonyms	RASGRP1; RAS guanyl releasing protein 1; RAS guanyl-releasing protein 1; calDAG-GEFII; calcium and DAG-regulated guanine nucleotide exchange factor II; Rasgrp
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Gene ID	19419
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mRNA Refseq	NM_011246
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Protein Refseq	NP_035376
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UniProt ID	Q9Z1S3
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