

Recombinant Mouse Rapgef3 Protein, Myc/DDK-tagged

Cat. No. Rapgef3-5377M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length Rap guanine nucleotide exchange factor (GEF) 3 (Rapgef3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Guanine nucleotide exchange factor (GEF) for RAP1A and RAP2A small GTPases that is activated by binding cAMP. Through simultaneous binding of PDE3B to RAPGEF3 and PIK3R6 is assembled in a signaling complex in which it activates the PI3K gamma complex and which is involved in angiogenesis. Plays a role in the modulation of the cAMP-induced dynamic control of endothelial barrier function through a pathway that is independent on Rho-mediated signaling. Required for the actin rearrangement at cell-cell junctions, such as stress fibers and junctional actin.
Molecular Mass	99.2 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

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Rapgef3 Rap guanine nucleotide exchange factor (GEF) 3 [Mus musculus (house mouse)]

Official Symbol [Rapgef3](#)

Synonyms RAPGEF3; Rap guanine nucleotide exchange factor (GEF) 3; rap guanine nucleotide exchange factor 3; cAMP-GEFI; exchange protein directly activated by cAMP 1; cAMP-regulated guanine nucleotide exchange factor I; Rap1 guanine-nucleotide-exchange factor directly activated by cAMP; Epac; Epac1; 2310016P22Rik; 9330170P05Rik; MGC19192

Gene ID [223864](#)

mRNA Refseq [NM_144850](#)

Protein Refseq [NP_659099](#)

UniProt ID [Q8VCC8](#)

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