

Rho Guanine Nucleotide Exchange Factor 7

Cat. No. CBCRY28 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Source	E.coli
Background	Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein belongs to a family of cytoplasmic proteins that activate the Ras-like family of Rho proteins by exchanging bound GDP for GTP. It may form a complex with G proteins and stimulate Rho-dependent signals. This protein can induce membrane ruffling. Multiple alternatively spliced transcript variants encoding different isoforms have been described for this gene, but some of their full-length sequences have not been determined.
Protein Classification	Signaling Protein
Structure Weight	15255.28 Da
Polymer	1
Molecule	Rho guanine nucleotide exchange factor 7
Chain Length	61 amino acids
PDB ID	2ESW

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MMDB ID	38672
Method	X-Ray Diffraction
Resolution	2.01Å
Ligand Chemical Component	Chloride ion; Mercury ion
Reference	Li, X., Liu, X., Sun, F., Gao, J., Zhou, H., Gao, G.F., Bartlam, M., Rao, Z. (2006) Crystal structure of the N-terminal SH3 domain of mouse betaPIX, p21-activated kinase-interacting exchange factor Biochem. Biophys. Res. Commun. 339: 407-414

GENE INFORMATION

Gene Name	Arhgef7
Synonyms	PIX; Cool; Pak3bp; cool-1; p85SPR; betaPix; p85Cool1; betaPix-b; betaPix-c; mKIAA0142; Arhgef7; PAK-interacting exchange factor beta; OTTMUSP00000023238; Pak3 binding protein; Pak interacting exchange factor; Dkfzp761k1021; kiaa0412; p50; p50bp; p85; pak3; pixb
UniProt ID	Q6XPA5
Gene ID	54126
Chromosome Location	8 A1.1
Function	guanyl-nucleotide exchange factor activity; Rho guanyl-nucleotide exchange factor activity; protein binding

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