



# ARHGEF7 Protein Crystal

Catalog: CBCRY28

## PRODUCT INFORMATION

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**Name** ARHGEF7 Protein Crystal

**Cat No.** CBCRY28

**Fragment** SH3 domain

**Protein Description** Rho Guanine Nucleotide Exchange Factor 7

**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

**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