

Shank1 binds Sharpin

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Introduction

Reactome is open-source, open access, manually curated and peer-reviewed pathway database. Pathway annotations are authored by expert biologists, in collaboration with Reactome editorial staff and cross-referenced to many bioinformatics databases. A system of evidence tracking ensures that all assertions are backed up by the primary literature. Reactome is used by clinicians, geneticists, genomics researchers, and molecular biologists to interpret the results of high-throughput experimental studies, by bioinformaticians seeking to develop novel algorithms for mining knowledge from genomic studies, and by systems biologists building predictive models of normal and disease variant pathways.

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Literature references

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- Fabregat, A., Jupe, S., Matthews, L., Sidiropoulos, K., Gillespie, M., Garapati, P. et al. (2018). The Reactome Pathway Knowledgebase. *Nucleic Acids Res*, 46, D649-D655. [↗](#)
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Reactome database release: 88

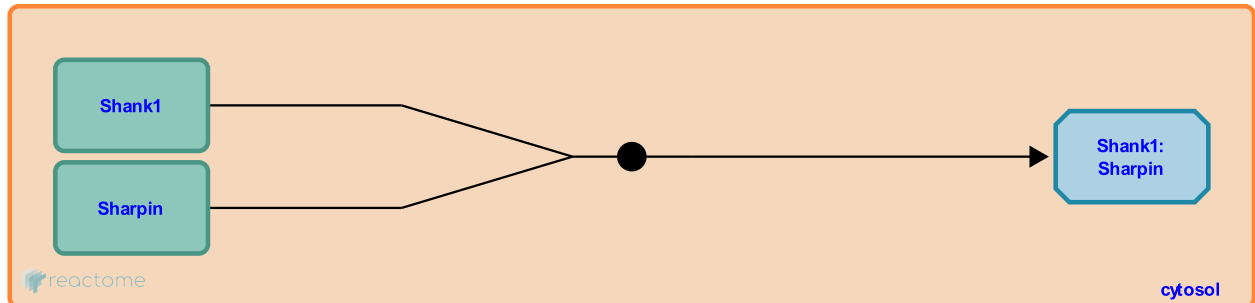
This document contains 1 reaction ([see Table of Contents](#))

Shank1 binds Sharpin [↗](#)

Stable identifier: R-RNO-6794341

Type: binding

Compartments: cytosol



SHANK with its ankyrin repeats has been found to bind SHARPIN a molecule that can form homomers. SHARPIN is another PSD protein enriched at synaptic sites in mature neurons and may be involved in the formation and maintenance of excitatory synaptic structures (Lim et al. 2001).

Literature references

Sheng, M., Kim, E., Kuroda, S., Lim, S., Sala, C., Park, S. et al. (2001). Sharpin, a novel postsynaptic density protein that directly interacts with the shank family of proteins. *Mol. Cell. Neurosci.*, 17, 385-97. [↗](#)

Editions

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