

Datasheet

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A DRUG SCREENING EXPERT

Product Name : Cucurbitacin A
Catalog Number : TN1533
CAS Number : 6040-19-3
Molecular Formula : C₃₂H₄₆O₉
Molecular Weight : 574.71

Description: Cucurbitacin I, cytotoxic triterpenoid sterols isolated from plants, elicits the formation of actin/phospho-myosin II co-aggregates by stimulation of the RhoA/ROCK pathway and inhibition of LIM-Kinase.

Storage: 2 years -80°C in solvent; 3 years -20°C powder;

Receptor (IC50)	ROCK
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In vitro Activity

We unravel here that cucurbitacin I actually induces the co-aggregation of actin with phospho-myosin II. This co-aggregation most probably results from the stimulation of the Rho/ROCK pathway and the direct inhibition of the LIMKinase. We further provide data that suggest that the formation of these co-aggregates is independent of a putative pro-oxidant status of cucurbitacin I.

Reference

1. Cucurbitacin I elicits the formation of actin/phospho-myosin II co-aggregates by stimulation of the RhoA/ROCK pathway and inhibition of LIM-kinase. *Biochem. Pharmacol.*, 2015, 102:45-63.

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