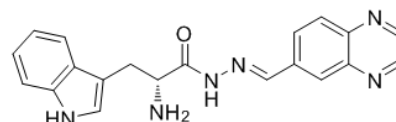


**Product Name** : Rhosin  
**Cat. No.** : PC-43133  
**CAS No.** : 1173671-63-0  
**Molecular Formula** : C<sub>20</sub>H<sub>18</sub>N<sub>6</sub>O  
**Molecular Weight** : 358.3965  
**Target** : Small GTPase  
**Solubility** : 10 mM in DMSO



## Biological Activity

Rhosin (G04) is a potent, specific RhoA subfamily Rho GTPases inhibitor that specifically binds to **RhoA** to inhibit GEF reaction of RhoA with K<sub>d</sub> of 0.4 μM, does not interact with Cdc42 or Rac1, nor the LARG.

Rhosin specifically inhibits GEF activation of RhoA in vitro and in cells and can potently suppress breast cancer cell proliferation and invasion and induce neurite outgrowth in PC12 cells.

Rhosin strongly inhibits RhoA-GTP formation in NIH 3T3 cells (EC<sub>50</sub>=10-30 μM), reduces RhoA and p-MLC1 activities of MCF7 cell-derived mammospheres (EC<sub>50</sub>=30-50 μM).

Rhosin suppresses invasion of mammary epithelial cells, induces neurite outgrowth of PC12 cells in synergy with NGF.

## References

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Yoon C, et al. *Clin Cancer Res.* 2016 Feb 15;22(4):971-83.

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**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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