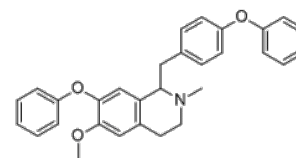


**Product Name** : SG-094  
**Cat. No.** : PC-72547  
**CAS No.** : 2922283-37-0  
**Molecular Formula** : C<sub>30</sub>H<sub>29</sub>NO<sub>3</sub>  
**Molecular Weight** : 451.566  
**Target** : Calcium Channel  
**Solubility** : 10 mM in DMSO



### Biological Activity

SG-094 (SG094) is a specific cytostatic **two-pore channel 2** (TPC2) inhibitor with IC<sub>50</sub> of 8.3 μM (TPC2 activator TPC2-A1-P inhibition), shows antiproliferative effect on RIL175 cells with IC<sub>50</sub> of 3.7 μM.

SG-094 blocked PI(3,5)P<sub>2</sub>-elicited TPC2 currents, significantly increased the percentage of channel inhibition (75%) compared with tetrandrine.

SG-094 had no considerable inhibitory effect on TRPML1, only on TPC1.

SG-094 inhibits TPC2 upon activation with both TPC2-A1-P and and TPC2-A1-N.

SG-094 significantly reduced VEGF-induced phosphorylation of several downstream targets eNOS, JNK, and AKT in cells, without decreasing their total protein.

SG-094 influenced cellular energy metabolism and was less toxic than tetrandrine to non-cancerous cells, reduced tumor growth in vivo.

### References

Martin Müller, et al. *Cell Chem Biol.* 2021 Aug 19;28(8):1119-1131.e27.

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

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