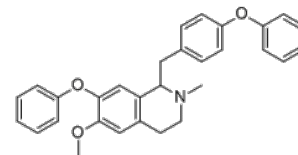


Product Name : SG-094
Cat. No. : PC-72547
CAS No. : 2922283-37-0
Molecular Formula : C₃₀H₂₉NO₃
Molecular Weight : 451.566
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

SG-094 (SG094) is a specific cytostatic **two-pore channel 2** (TPC2) inhibitor with IC₅₀ of 8.3 μM (TPC2 activator TPC2-A1-P inhibition), shows antiproliferative effect on RIL175 cells with IC₅₀ of 3.7 μM.

SG-094 blocked PI(3,5)P₂-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 targetseNOS, 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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