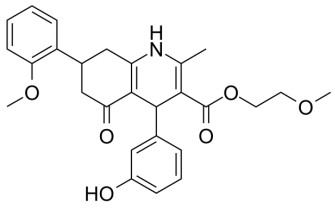
GLI antagonist-1

Cat. No.:	HY-107551
CAS No.:	599150-20-6
Molecular Formula:	$C_{27}H_{29}NO_6$
Molecular Weight:	463.52
Target:	Gli
Pathway:	Stem Cell/Wnt

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



BIOLOGICAL ACTIVITY

Description

GLI antagonist-1 is a potent GLI antagonist with an IC_{50} value of 1.1 μM. GLI antagonist-1 shows anti-proliferative activity. GLI antagonist-1 decreases the GLI1 mRNA expression. GLI antagonist-1 inhibits colony formation in a dose-dependent manner[1].

IC_{50} & Target

IC_{50}: 1.1 μM (GLI)[1]

In Vitro

GLI antagonist-1 (compound HPI-1) (0-25 μM; 72 h) shows anti-proliferative activity with IC_{50} values of 29, >25, 20.5 μM for SUM149, MDA-MB-231, SUM159 cells, respectively[1].

GLI antagonist-1 (10 μM; 72 h) decreases the GLI1 mRNA expression in SUM149 cells[1].

GLI antagonist-1 (5, 10, 20 μM) inhibits colony formation in a dose-dependent manner in SUM149 and MDA-MB-231 cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[1]

Cell Line:	SUM149, MDA-MB-231, SUM159 cells
Concentration:	0-25 μM
Incubation Time:	72 h
Result:	Showed anti-proliferative activity with IC_{50} values of 29, >25, 20.5 μM for SUM149, MDA-MB-231, SUM159 cells, respectively.

REFERENCES

[1]. Oladapo HO, et al. Pharmacological targeting of GLI1 inhibits proliferation, tumor emboli formation and in vivo tumor growth of inflammatory breast cancer cells. Cancer Lett. 2017 Dec 28;411:136-149.

Caution: Product has not been fully validated for medical applications. For research use only.

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