CP681301

Cat. No.:	HY-150082
CAS No.:	865317-32-4
Molecular Formula:	C ₁₇ H ₂₂ N ₄ O
Molecular Weight:	298
Target:	CDK; DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (335.57 mM) * "≥" means soluble, but saturation unknown.

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.3557 mL	16.7785 mL	33.5570 mL
	5 mM	0.6711 mL	3.3557 mL	6.7114 mL
	10 mM	0.3356 mL	1.6779 mL	3.3557 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIV	ЛІТҮ	
Description	CD133, OLIG2, SOX2, KI	0K5 inhibitor. CP681301 shows antiproliferative activity. CP681301 decreases the expression of 67, pCDK5 protein level in GSCs (Glioma stem cells). CP681301 reduces self-renewal in mouse glioma nows anti-tumor activity in Drosophila ^[1] .
In Vitro	CP681301 (0, 10, 50 μM; CP681301 (0, 0.5, 1 μM;)	hows variably cytotoxic to the tested GSC cultures but is not toxic to NHNPs ^[1] . 48 h) decreases the expression of CD133, OLIG2, SOX2, KI67, pCDK5 protein level in GSCs ^[1] . suppresses the expression of CREB Ser133 phosphorylation ^[1] . ntly confirmed the accuracy of these methods. They are for reference only.]
	Cell Line:	NHNP, N12.159, GBM121, GBM39, N08-74 cells
	Concentration:	1 μM
	Incubation Time:	96 h

Product Data Sheet

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	Result:	Showed variably cytotoxic to the tested GSC cultures but was not toxic to NHNPs (norma human neuro-progenitors).
	Western Blot Analysis ^[1]	
	Cell Line:	GBM 121, GBM39 cells
	Concentration:	1 μΜ
	Incubation Time:	48 h
	Result:	Suppressed the expression of CD133, OLIG2, and SOX2 and cell proliferation marker KI67
)	CP681301 (1 mM; fed; 10	0 days) shows anti-tumor activity in 0- to 2-day-old adult Drosophila ^[1] .
)		0 days) shows anti-tumor activity in 0- to 2-day-old adult Drosophila ^[1] . ntly confirmed the accuracy of these methods. They are for reference only. 0- to 2-day-old adult Drosophila (brat-RNAi tumors) ^[1]
,	MCE has not independe	ntly confirmed the accuracy of these methods. They are for reference only.
)	MCE has not independe Animal Model:	ntly confirmed the accuracy of these methods. They are for reference only. 0- to 2-day-old adult Drosophila (brat-RNAi tumors) ^[1]

REFERENCES

[1]. Mukherjee S, et al. CDK5 Inhibition Resolves PKA/cAMP-Independent Activation of CREB1 Signaling in Glioma Stem Cells. Cell Rep. 2018 May 8;23(6):1651-1664.

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

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