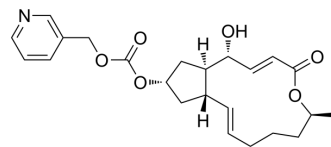


CHNQD-01255

Cat. No.:	HY-151461
CAS No.:	2756173-91-6
Molecular Formula:	C ₂₃ H ₂₉ NO ₆
Molecular Weight:	415.48
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CHNQD-01255 is an orally active Arf-GEFs inhibitor with potent anti-hepatocellular carcinoma (HCC) efficacy ^[1] .	
In Vitro	CHNQD-01255 (0-1 μM approximately, 72 h) inhibits HepG2 and BEL-7402 cell proliferation ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay CHNQD-01255 (0-1 μM approximately, 72 h) inhibits HepG2 and BEL-7402 cell proliferation ^[1] .	
	Cell Line:	HepG2, BEL-7402 cell
	Concentration:	0-1 μM approximately
	Incubation Time:	72 h
	Result:	Inhibited cell proliferation with an IC ₅₀ value of 0.1 μM (HepG2) and 0.07 μM (BEL-7402).
In Vivo	CHNQD-01255 (5- 45 mg/kg, p.o.) inhibits tumor growth in HepG2 tumor-bearing xenograft mice ^[1] . CHNQD-01255 exhibits a high safety profile with MTD values exceeding 750 and 100 mg/kg for p.o. and i.p. administrations in mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	HepG2 tumor-bearing xenograft mice ^[1]
	Dosage:	5, 15, and 45 mg/kg
	Administration:	Oral administration (p.o.), every day for 21 consecutive days.
	Result:	Resulted in dramatically delayed tumor progression, with a tumor growth inhibition rate (TGI %) value of 61.0% at 45 mg/kg.
	Animal Model:	HepG2 tumor-bearing xenograft mice ^[1]
	Dosage:	1 and 9 mg/kg
Administration:	Intraperitoneal injection (i.p.), every day for 21 consecutive days.	

Result:	Inhibited the tumor growth with the TGI values of 36.6 and 48.3%, respectively.				
Animal Model:	Mice (Pharmacokinetic assay) ^[1]				
Dosage:	45 mg/kg p.o., 10 mg/kg i.v.				
Administration:	Oral administration (p.o.) or intravenous injection (i.v.)				
Result:	Pharmacokinetic profile of CHNQD-01255.				
	dose (mg/kg)	T _{1/2} (h)	C _{max} (ng/mL)	Cl (mL/h/kg)	F (%)
	45 (p.o.)	7.35	20.26	598245.37	2.26
	10 (i.v.)		2060.78		

REFERENCES

[1]. Yao-Yao Jiang, et al. Design and Characterization of a Natural Arf-GEFs Inhibitor Prodrug CHNQD-01255 with Potent Anti-Hepatocellular Carcinoma Efficacy In Vivo. *J Med Chem.* 2022 Sep 22;65(18):11970-11984.

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

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