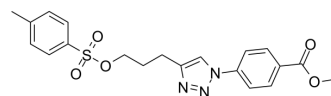


Cjoc42

Cat. No.:	HY-138054
CAS No.:	2171519-89-2
Molecular Formula:	C ₂₀ H ₂₁ N ₃ O ₅ S
Molecular Weight:	415.46
Target:	MDM-2/p53
Pathway:	Apoptosis
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 (240.70 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	
				5 mg	
				10 mg	
				10 mg	
			1 mg	5 mg	10 mg
	1 mM		2.4070 mL	12.0349 mL	24.0697 mL
	5 mM		0.4814 mL	2.4070 mL	4.8139 mL
	10 mM		0.2407 mL	1.2035 mL	2.4070 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.02 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Cjoc42 is a compound capable of binding to gankyrin. Cjoc42 inhibits gankyrin activity in a dose-dependent manner. Cjoc42 prevents the decrease in p53 protein levels normally associated with high amounts of gankyrin. Cjoc42 restores p53-dependent transcription and sensitivity to DNA damage ^[1] .	
In Vitro	cjoc42 (0.5, 1, and 5 μM; 48 hours) dose-dependently restores p53 levels (comparable to mock transfected cells) and inhibits gankyrin-induced lowering of p53 levels in cells ^[1] .	
	cjoc42 (0.1, 1, and 10 μM; 24 hours) alone shows no dose-dependent change in cell viability ^[1] .	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Western Blot Analysis ^[1]	
	Cell Line:	U2OS
	Concentration:	0.5, 1, and 5 μM

Incubation Time:	48 hours
Result:	Dose-dependent restoration of p53 levels (comparable to mock transfected cells) and inhibited gankyrin-induced lowering of p53 levels in cells.

REFERENCES

[1]. Chattopadhyay A, et al. Discovery of a small-molecule binder of the oncoprotein gankyrin that modulates gankyrin activity in the cell. Sci Rep. 2016;6:23732.

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

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