$HIF-1\alpha$ -IN-2

®

MedChemExpress

Cat. No.:	HY-115903	
CAS No.:	2762315-06-8	0 N
Molecular Formula:	$C_{21}H_{19}N_3OS$	
Molecular Weight:	361.46	S T
Target:	HIF/HIF Prolyl-Hydroxylase	NH
Pathway:	Metabolic Enzyme/Protease	
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (69.16 mM; ultrasonic and warming and heat to 60°C)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.7666 mL	13.8328 mL	27.6656 mL	
		5 mM	0.5533 mL	2.7666 mL	5.5331 mL	
		10 mM	0.2767 mL	1.3833 mL	2.7666 mL	
	Please refer to the so	lubility information to select the ap	propriate solvent.			
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.92 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.92 mM); Clear solution					
	3. Add each solvent of Solubility: ≥ 2.5 m	one by one: 10% DMSO >> 90% cor g/mL (6.92 mM); Clear solution	n oil			

BIOLOGICAL ACTIVITY				
Description	HIF-1α-IN-2 is an effective HIF-1α inhibitor with anticancer potencies (IC ₅₀ s of 28 nM and 15 nM in MDA-MB-231 and MiaPaCa- 2 cells, respectively). HIF-1α-IN-2 suppresses HIF-1α expression by blocking transcription and protein translation ^[1] .			
IC ₅₀ & Target	IC_{50} : 28 nM (HIF-1a) in MDA-MB-231, 15 nM (HIF-1a) in MiaPaCa-2 ^[1]			
In Vitro	HIF-1α-IN-2 (compound 7f) (5 μM; 72h) suppresses the viability of MDA-MB-231 and MiaPaCa-2 cells with IC ₅₀ s of 28 nM and 15 nM, respectively ^[1] . HIF-1α-IN-2 (0-1 μM; 72h) suppresses the expression of HIF-1α and VEGF with dose-dependent effect ^[1] .			

Page 1 of 2

HIF-1 α -IN-2 (0.25, 0.5, and 1 μ (0.5 μ M), and 85% (1 μ M), resp effect of HIF-1 α -IN-2 ^[1] . HIF-1 α -IN-2 (0-1 μ M; 72h) sup MCE has not independently c Cell Viability Assay	M; 16-24h) can significantly inhibit the migration of MDA-MD-231 cells by 56% (0.25 μM), 83% pectively, and also noted in MiaPaCa-2 cells, which demonstrates the unique anti-migration presses HIF-1α mRNA levels in MDA-MB-231 cells under hypoxia ^[1] . onfirmed the accuracy of these methods. They are for reference only.	
Cell Line:	MDA-MB-231 cells, MiaPaCa-2 cells ^[1]	
Concentration:	5 μΜ	
Incubation Time:	72 hours	
Result:	Suppressed the viability of these two cell lines with IC ₅₀ of 28 nM and 15 nM in MDA-MB-231 and MiaPaCa-2 cells, respectively.	
Cell Viability Assay		
Cell Line:	MDA-MB-231 cells, MiaPaCa-2 cells ^[1]	
Concentration:	5 μΜ	
Incubation Time:	72 hours	
Result:	Suppressed the viability of these two cell lines with IC ₅₀ of 28 nM and 15 nM in MDA-MB- 231 and MiaPaCa-2 cells, respectively.	

REFERENCES

[1]. Wu YC, et al. Synthesis and evaluation of biarylquinoline derivatives as novel HIF-1a inhibitors. Bioorg Chem. 2022;121:105681.

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

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