VEGFR-2-IN-39

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®

Cat. No.:	HY-160259
CAS No.:	2353417-86-2
Molecular Formula:	C ₅₅ H ₆₆ FN ₉ O ₆ S
Molecular Weight:	1000.23
Target:	VEGFR; PROTACs
Pathway:	Protein Tyrosine Kinase/RTK; PROTAC
Storage:	4°C, protect from light * In solvent : -80°C, 6 months: -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

DMSO : 200 mg/mL (199.95 mM; Need ultrasonic)					
Solvent	1 mg	5 mg	10 mg		
1 mM	0.9998 mL	4.9989 mL	9.9977 mL		
5 mM	0.2000 mL	0.9998 mL	1.9995 mL		
10 mM	0.1000 mL	0.4999 mL	0.9998 mL		
n	g/mL (199.95 mM; Need ultrasonic) Mass Solvent Concentration 1 mM 5 mM 10 mM	g/mL (199.95 mM; Need ultrasonic) Solvent Mass Concentration 1 mg 0.9998 mL 5 mM 0.2000 mL 10 mM 0.1000 mL	g/mL (199.95 mM; Need ultrasonic) Solvent Mass Concentration 1 mg 5 mg 1 mM 0.9998 mL 4.9989 mL 5 mM 0.2000 mL 0.9998 mL 10 mM 0.1000 mL 0.4999 mL		

BIOLOGICAL ACTIVITY				
Description	VEGFR-2-IN-39 (PROTAC-5 inhibits the proliferation o	5) is a PROTAC targeting VEGFR-2 (IC ₅₀ : 208.6 nM). VEGFR-2-IN-39 has low toxicity.VEGFR-2-IN-39 of EA.hy926, one of HUVECs, in a concentration-dependent manner, with an IC ₅₀ of 38.65 μ M ^[1] .		
IC ₅₀ & Target	VEGFR2			
In Vitro	VEGFR-2-IN-39 (0-60 μM; C VEGFR-2-IN-39 (10-40 μM; VEGFR-2-IN-39 (0.1-40 μM MCE has not independent Western Blot Analysis ^[1] Cell Line:	0-72 h) can efficiently reduce the protein levels of VEGFR-2 in a dose-dependent manner ^[1] . 72 h) prolongs the S phase of the cell cycle in HUVECs ^[1] . ; 72 h) induces apoptosis in HUVECs in a dose-dependent manner ^[1] . cly confirmed the accuracy of these methods. They are for reference only.		
	Concentration:	0-60 μΜ		
	Incubation Time:	0-72 h		

Product Data Sheet

Result:	VEGFR-2 levels by up to 60% at a concentration of 40 $\mu mol/L,$ with rapid degradation visible as early as 24 hours and nearly complete by 48 hours.		
Cell Cycle Analysis ^[1]			
Cell Line:	HUVECs		
Concentration:	10-40 μΜ		
Incubation Time:	0-72 h		
Result:	Resulted in a significant increase in the proportion of cells in the S phase, indicating a ha or delay in the progression of the cell cycle. Correspondingly, there was a notable reduction in the number of cells in the G1 phase.		
Apoptosis Analysis ^[1]			
Cell Line:	HUVECs		
Concentration:	0.1-40 μΜ		
Incubation Time:	0-72 h		
Result:	Resulted in a significant dose-dependent increase in the percentage of apoptotic cells. The percentage of late apoptotic cells increased as follows: control (untreated) : 5.34% 10 μM: 6.94% 20 μM: 8.32% 30 μM: 15.6% 40 μM: 48.7%		

REFERENCES

[1]. Shan Y, et al. Discovery of novel anti-angiogenesis agents. Part 11: Development of PROTACs based on active molecules with potency of promoting vascular normalization. Eur J Med Chem. 2020 Nov 1;205:112654.

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

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