Wu-5

Cat. No.:	HY-153886		
CAS No.:	2630378-05-	9	
Molecular Formula:	C ₁₅ H ₁₃ NO ₇ S		
Molecular Weight:	351.33		
Target:	FLT3; AMPK;	Apoptosi	is
Pathway:	Protein Tyrc	sine Kina	se/RTK; Epigenetics; PI3K/Akt/mTOR; Apoptosis
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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	Mass Solvent Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.8463 mL	14.2316 mL	28.4633 m
	5 mM	0.5693 mL	2.8463 mL	5.6927 ml
	10 mM	0.2846 mL	1.4232 mL	2.8463 ml

BIOLOGICAL ACTIV		
Description	Wu-5 is a USP10 inhibitor	that can inhibit FLT3 and AMPK pathways, induce FLT3-ITD degradation and induce apoptosis $^{[1]}$.
In Vitro	Wu-5 (10 μM; 24, 48, 72 h) Wu-5 (1, 2.5, 5 μM; 24, 48 [[1]. Wu-5 (5 μM; 24 h) induces MCE has not independent Cell Viability Assay ^[1]	selectively induces the death of FLT3-ITD-positive AML cells ^[1] . h) induces apoptosis of FLT3-ITD-positive AML cells in a concentration and time-dependent manner FLT3-ITD degradation by the proteasome pathway ^[1] . tly confirmed the accuracy of these methods. They are for reference only.
	Cell Line:	U937, HL60, MV4-11, Molm13, and MV4-11-R cells
	Concentration:	10 μΜ
	Incubation Time:	24, 48, 72 h
	Result:	Significantly inhibited the growth of the FLT3-ITD-positive cells (MV4-11, MV4-11-R and

Product Data Sheet

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	Molm13 cells), but had no or little effect on the proliferation of the FLT3-ITD negative cell (U937 and HL60 cells).	
Apoptosis Analysis ^[1]		
Cell Line:	MV4-11, and Molm13 cells	
Concentration:	1, 2.5, 5 μM	
Incubation Time:	24, 48 h	
Result:	Induced the apoptosis of MV4-11 and Molm13 in a concentration and time-dependent manner.	
Western Blot Analysis ^[1]		
Cell Line:	MV4-11, MV4-11-R, and Molm13 cells	
Concentration:	5 μΜ	
Incubation Time:	24 h	
Result	Induced FLT3-ITD degradation.	

REFERENCES

[1]. Miao Yu, et al. Wu-5, a novel USP10 inhibitor, enhances crenolanib-induced FLT3-ITD-positive AML cell death via inhibiting FLT3 and AMPK pathways. Acta Pharmacol Sin. 2021 Apr;42(4):604-612.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA