5-LOX-IN-2

Cat. No.:	HY-138939		
CAS No.:	179691-97-	5	
Molecular Formula:	C ₁₇ H ₁₆ O ₄		
Molecular Weight:	284.31		
Target:	Lipoxygena	ise	
Pathway:	Metabolic E	Enzyme/F	Protease
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
		1 mM	3.5173 mL	17.5864 mL	35.1729 mL
		5 mM	0.7035 mL	3.5173 mL	7.0346 mL
		10 mM	0.3517 mL	1.7586 mL	3.5173 mL
	Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent Solubility: ≥ 2.5 m	one by one: 10% DMSO >> 40% PEG g/mL (8.79 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline	

DIOLOGICALACITY	
Description	5-LOX-IN-2, an inhibitor of 5-lipoxygenase (5-LOX) with an IC ₅₀ of 0.33 μM, inhibits 5-LOX in a dose-dependent manner . 5- LOX-IN-2, reduces the cell viability of renal cancer cells and induces apoptosis, can be used for cancer research ^[1] .
IC ₅₀ & Target	5-LOX 0.33 μM (IC ₅₀)
In Vitro	5-LOX-IN-2 (Compound 10b) (0-100 μM; 4 days) reduces the cell viability of renal cancer cells ^[1] . 5-LOX-IN-2 (Compound 10b) (0-10 μM; 24 hours) increases in LC3B and p62 expression, blocks of the autophagic flux in RCC4 cells, and induces apoptosis by activation of the caspase-3 pathway leading to cell death ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]

Product Data Sheet

ОН





Cell Line:	RCC4, RCC10, 786.0 cells
Concentration:	0-100 μΜ
Incubation Time:	4 days
Result:	Reduced the cell viability of renal cancer cells and was more selective toward RCC4 and 786.0 cells which are deficient for the Von Hippel-Lindau (VHL) tumor suppressor gene.
Western Blot Analysis ^[1]	
Cell Line:	RCC4, RCC10, 786.0 cells
Concentration:	0-10 μΜ
Incubation Time:	24 hours
Result:	Increased in LC3B and p62 expression, blocked of the autophagic flux in RCC4 cells. Stimulated in a dose ependent manner the cleavage of pro-caspase-3 only in the RCC4 cells which lack the VHL tumor suppressor.

REFERENCES

[1]. Selka A, et.al. Discovery of a novel 2,5-dihydroxycinnamic acid-based 5-lipoxygenase inhibitor that induces apoptosis and may impair autophagic flux in RCC4 renal cancer cells. Eur J Med Chem. 2019 Oct 1;179:347-357.

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