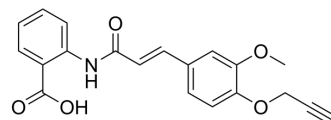


FT011

Cat. No.:	HY-100495		
CAS No.:	1001288-58-9		
Molecular Formula:	C ₂₀ H ₁₇ NO ₅		
Molecular Weight:	351.35		
Target:	MMP		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (284.62 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.8462 mL	14.2308 mL	28.4616 mL
		5 mM	0.5692 mL	2.8462 mL	5.6923 mL
10 mM		0.2846 mL	1.4231 mL	2.8462 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (7.12 mM); Suspended solution; Need ultrasonic 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.12 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	FT011 is an anti-fibrotic agent, reduces mRNA expression of collagens I and III and inhibits collagen synthesis ^[1] . FT011 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.	
In Vivo	FT011 (100 mg/kg b.i.d., p.o., for 4 weeks) improves the cardiac function and myocardial remodeling in myocardial infarction rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Seventy male Sprague Dawley (SD) rats (weighing 200-250 g) ^[1]

Dosage:	100 mg/kg
Administration:	B.I.D., p.o. on day 7 after surgery, for 4 weeks
Result:	Increased ejection fraction, fraction shortening and preload recruitable stroke work.

CUSTOMER VALIDATION

- Adv Sci (Weinh). 2021 May 27;e2100363.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Zhang Y, et al. A new anti-fibrotic drug attenuates cardiac remodeling and systolic dysfunction following experimental myocardial infarction. Int J Cardiol. 2013 Sep 30;168(2):1174-85.

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

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