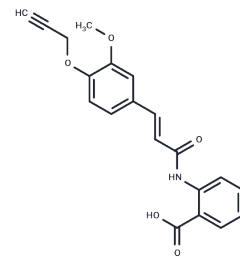


FT011

Chemical Properties

CAS No. : 1001288-58-9
 Formula: C₂₀H₁₇NO₅
 Molecular Weight: 351.35
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	FT011, a direct anti-fibrotic agent, attenuates cardiac remodelling and dysfunction in experimental diabetic cardiomyopathy.
Targets(IC50)	MMP, Others
In vivo	A direct anti-fibrotic agent, FT011, attenuates cardiac remodelling and dysfunction in experimental diabetic cardiomyopathy[1].
Animal Research	Homozygous Ren-2 rats were randomized to receive streptozotocin or vehicle then further randomized to FT011 (200 mg/kg/day) or vehicle treatment for 6 weeks. Prior to tissue collection, cardiac function was assessed via echocardiography and cardiac catheterization. Total collagen deposition and cardiomyocyte hypertrophy were assessed by picosirius red and haematoxylin and eosin staining, respectively. Macrophage interstitial infiltration and type I and III collagen were quantitated by immunostaining[1].

Solubility Information

Solubility	DMSO: 29 mg/mL (82.54 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (5.69 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0569 mL	0.2846 mL	0.5692 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Zhang Y , Edgley A J , Cox A J , et al. FT011, a new anti-fibrotic drug, attenuates fibrosis and chronic heart failure in experimental diabetic cardiomyopathy[J]. *European Journal of Heart Failure*, 2012, 14(5):549-562.

Lau X , Zhang Y , Kelly D J , et al. Attenuation of Armani-Ebstein lesions in a rat model of diabetes by a new anti-fibrotic, anti-inflammatory agent, FT011[J]. *Diabetologia*, 2013, 56(3):675-679.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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