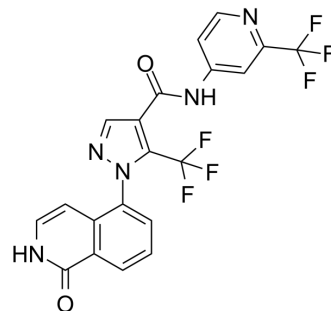


Safimaltib

Cat. No.:	HY-139399		
CAS No.:	2230273-76-2		
Molecular Formula:	C ₂₀ H ₁₁ F ₆ N ₅ O ₂		
Molecular Weight:	467.32		
Target:	MALT1		
Pathway:	Metabolic Enzyme/Protease; NF-κB		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (267.48 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.1399 mL	10.6993 mL	21.3986 mL
		5 mM		0.4280 mL	2.1399 mL	4.2797 mL
10 mM			0.2140 mL	1.0699 mL	2.1399 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.45 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.45 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.45 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	Safimaltib (JNJ-67856633) is an orally active, first-in-class, potent, selective and allosteric MALT1 protease inhibitor. Safimaltib in some cases lead to tumor stasis ^{[1][2][3]} .
IC₅₀ & Target	MALT1 protease ^{[1][2][3]}
In Vitro	Safimaltib (JNJ-67856633) is effective and highly bioavailable in both mouse and rat tumors, and in some cases led to tumor stasis.

Safimaltib leads to potent in vivo pharmacodynamic shutdown in CD79b- as well as CARD11-mutant ABC-DLBCL models as measured by serum IL10 or uncleaved BCL10 levels in tumors^{[1][3]}.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Dose dependent inhibition of the generation of Tregs (CD4⁺CD25⁺FoxP3⁺) following CD3/28 stimulation was observed upon treatment with JNJ-67856633 suggesting a potential immune modulatory role of MALT1 inhibition^[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Virtual meeting delivers first time drug structures

[2]. A Phase 1, First-in-Human, Open-Label Study of the Safety, Pharmacokinetics, and Pharmacodynamics of JNJ-67856633, an Inhibitor of MALT1, in Participants with NHL and CLL

[3]. Abstract 5690: Discovery of JNJ-67856633: A novel, first-in-class MALT1 protease inhibitor for the treatment of B cell lymphomas

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

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