## Rilapladib

Cat. No.:	HY-102004				
CAS No.:	412950-08-4				
Molecular Formula:	$C_{40}H_{38}F_5N_3O_3S$				
Molecular Weight:	735.81				
Target:	Phospholipase				
Pathway:	Metabolic Enzyme/Protease				
Storage:	Powder	-20°C	3 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

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### SOLVENT & SOLUBILITY

In Vitro	DMSO : 86.67 mg/mL	DMSO : 86.67 mg/mL (117.79 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	1.3590 mL	6.7952 mL	13.5905 mL		
		5 mM	0.2718 mL	1.3590 mL	2.7181 mL		
		10 mM	0.1359 mL	0.6795 mL	1.3590 mL		
	Please refer to the so	lubility information to select the app	propriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.25 mg/mL (3.06 mM); Clear solution						
	<ol> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline)</li> <li>Solubility: 2.25 mg/mL (3.06 mM); Suspended solution; Need ultrasonic</li> </ol>						
	<ol> <li>Add each solvent of Solubility: ≥ 2.25 r</li> </ol>	one by one: 10% DMSO >> 90% cor ng/mL (3.06 mM); Clear solution	n oil				

BIOLOGICAL ACTIVITY				
Description	Rilapladib (SB 659032) is a selective Lp-PLA <sub>2</sub> (lipoprotein-associated phospholipase A <sub>2</sub> ) inhibitor with an IC <sub>50</sub> of 230 pM <sup>[1]</sup> . Rilapladib (SB 659032) is also a PAFR (Platelet Activating Factor Receptor) antagonist <sup>[2]</sup> .			
IC <sub>50</sub> & Target	IC50: 230 pM (Lp-PLA <sub>2</sub> ) <sup>[1]</sup> .			
In Vitro	Rilapladib through reduction of the PAF biological activity (as PAF inhibitors) and PAF levels could reduce Lp-PLA2 biosynthesis and prevent the possible adverse effects of Lp-PLA2 <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

# Product Data Sheet

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#### **CUSTOMER VALIDATION**

• Patent. US20220257599A1.

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#### REFERENCES

[1]. Shaddinger BC, et al. Platelet aggregation unchanged by lipoprotein-associated phospholipase A<sub>2</sub> inhibition: results from an in vitro study and two randomized phase I trials. PLoS One. 2014 Jan 27;9(1):e83094.

[2]. Athanasios Papakyriakou, et al. Computational Investigation of Darapladib and Rilapladib Binding to Platelet Activating Factor Receptor. A Possible Mechanism of Their Involvement in Atherosclerosis. International Journal of Chemistry; Vol. 6, No. 1; 2014.

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