BAY-678 racemate

Cat. No.:	HY-111515	
CAS No.:	675103-35-2	Â
Molecular Formula:	$C_{20}H_{15}F_3N_4O_2$	F C C C
Molecular Weight:	400.35	
Target:	Elastase	
Pathway:	Metabolic Enzyme/Protease	N
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

SOLVENT & SOLUBILITY

		Mass Solvent	1	-	10		
		Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.4978 mL	12.4891 mL	24.9781 mL		
		5 mM	0.4996 mL	2.4978 mL	4.9956 mL		
		10 mM	0.2498 mL	1.2489 mL	2.4978 mL		
	Please refer to the sol	ubility information to select the ap	propriate solvent.				
In Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.24 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.24 mM); Suspended solution; Need ultrasonic					
		3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (6.24 mM); Clear solution; Need warming					

BIOLOGICAL ACTIVITY			
Description	BAY-678 racemate is a racemate of BAY-678. BAY-678 is an orally bioavailable, highly potent, selective and cell-permeable inhibitor of human neutrophil elastase (HNE), with an IC ₅₀ of 20 nM. BAY-678 is also nominated as a chemical probe to the public via the Structural Genomics Consortium (SGC).		

REFERENCES

Product Data Sheet



[1]. von Nussbaum F, et al. Freezing the Bioactive Conformation to Boost Potency: The Identification of BAY 85-8501, a Selective and Potent Inhibitor of Human Neutrophil Elastase for Pulmonary Diseases. ChemMedChem. 2015 Jul;10(7):1163-73.

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

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