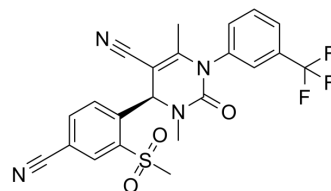


## (R)-BAY-85-8501

<b>Cat. No.:</b>	HY-19908B		
<b>CAS No.:</b>	2446175-39-7		
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>17</sub> F <sub>3</sub> N <sub>4</sub> O <sub>3</sub> S		
<b>Molecular Weight:</b>	474.46		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	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 (210.77 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1077 mL	10.5383 mL	21.0766 mL
	5 mM	0.4215 mL	2.1077 mL	4.2153 mL
	10 mM	0.2108 mL	1.0538 mL	2.1077 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (5.27 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (5.27 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

(R)-BAY-85-8501 is the less active Enantiomer of BAY-85-8501. BAY-85-8501 is a selective and potent inhibitor of Human Neutrophil Elastase (HNE), with an IC<sub>50</sub> of 65 pM<sup>[1]</sup>.

### CUSTOMER VALIDATION

- Chinese Academy of Sciences. 2019 Aug.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

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[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.

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

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