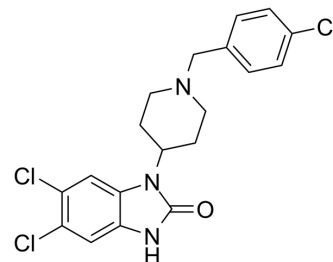


## SR17018

<b>Cat. No.:</b>	HY-111454		
<b>CAS No.:</b>	2134602-45-0		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>18</sub> Cl <sub>3</sub> N <sub>3</sub> O		
<b>Molecular Weight:</b>	410.72		
<b>Target:</b>	Opioid Receptor		
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling		
<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 : 12.5 mg/mL (30.43 mM; Need ultrasonic)  
 H<sub>2</sub>O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.4347 mL	12.1737 mL	24.3475 mL
	5 mM	0.4869 mL	2.4347 mL	4.8695 mL
	10 mM	0.2435 mL	1.2174 mL	2.4347 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: ≥ 1.25 mg/mL (3.04 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 1.25 mg/mL (3.04 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

SR17018 is a mu-opioid-receptor (MOR) agonist, binding with GTPγS, with an EC<sub>50</sub> of 97 nM.

#### IC<sub>50</sub> & Target

EC<sub>50</sub>: 97 nM (MOR)<sup>[1]</sup>

#### In Vitro

SR17018 is a mu-opioid-receptor (MOR) agonist, binding with GTPγS, with an EC<sub>50</sub> of 97 nM. SR17018 shows no obvious effect on inducing βarrestin2 recruitment to the MOR at below 10 μM. SR17018 promotes signaling through G proteins or βarrestin2<sup>[1]</sup>.

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

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## CUSTOMER VALIDATION

- Authorea. 2021 Jan 10.

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

## REFERENCES

[1]. Schmid CL, et al. Bias Factor and Therapeutic Window Correlate to Predict Safer Opioid Analgesics. Cell. 2017 Nov 16;171(5):1165-1175.e13.

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

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