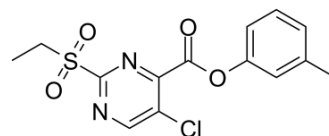


## SBI-115

Cat. No.:	HY-111534		
CAS No.:	882366-16-7		
Molecular Formula:	C <sub>14</sub> H <sub>13</sub> ClN <sub>2</sub> O <sub>4</sub> S		
Molecular Weight:	340.78		
Target:	GPCR19		
Pathway:	GPCR/G Protein		
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 : 150 mg/mL (440.17 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	2.9344 mL	14.6722 mL	29.3444 mL
	5 mM	0.5869 mL	2.9344 mL	5.8689 mL
	10 mM	0.2934 mL	1.4672 mL	2.9344 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 (7.34 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.5 mg/mL (7.34 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

SBI-115 is a TGR5 (GPCR19) antagonist. SBI-115 decreases hepatic cystogenesis with polycystic liver diseases via inhibiting TGR5<sup>[1]</sup>.

#### In Vitro

SBI-115 (100-200 μM, 24 hours) inhibits proliferation triggered by pre-treatment of cystic cholangiocytes with Tauro lithocholic acid (TLCA) in shRNA-transfected ADPKD cholangiocytes<sup>[1]</sup>.  
 Cell Proliferation Assay<sup>[1]</sup>

Cell Line:	shRNA-transfected ADPKD cholangiocytes
Concentration:	100, 200 $\mu$ M
Incubation Time:	24 hours
Result:	Inhibited proliferation (by 32-48%) triggered by pre-treatment of cystic cholangiocytes with TLCA.

## REFERENCES

[1]. Masyuk TV, et al. TGR5 contributes to hepatic cystogenesis in rodents with polycystic liver diseases through cyclic adenosine monophosphate/Gas signaling. *Hepatology*. 2017 Oct; 66(4):1197-1218.

**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](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA