



# SZABO SCANDIC

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Diagnostik & molekulare Diagnostik



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- Mindermengenzuschlag
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- Expressversand

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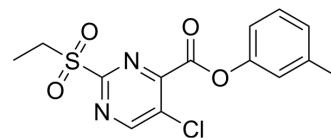
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## SBI-115

|                    |                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------|
| 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:            | G protein-coupled Bile Acid Receptor 1                                                             |
| Pathway:           | GPCR/G Protein                                                                                     |
| Storage:           | Powder    -20°C    3 years<br>4°C    2 years<br>In solvent   -80°C    6 months<br>-20°C    1 month |



## SOLVENT & SOLUBILITY

|                                                                               |                                                                                                                                                          |                                                       |      |           |            |            |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------|-----------|------------|------------|
| In Vitro                                                                      | DMSO : 150 mg/mL (440.17 mM; Need ultrasonic)                                                                                                            |                                                       |      |           |            |            |
|                                                                               | Preparing Stock Solutions                                                                                                                                | <div><div>Solvent</div><div>Concentration</div></div> | 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                                                                       | 1. Add each solvent one by one: corn oil<br>Solubility: 5 mg/mL (14.67 mM); Suspended solution; Need ultrasonic                                          |                                                       |      |           |            |            |
|                                                                               | 2. Add each solvent one by one: 2% DMSO >> 40% PEG300 >> 5% Tween-80 >> 53% saline<br>Solubility: 3 mg/mL (8.80 mM); Suspended solution; Need ultrasonic |                                                       |      |           |            |            |
|                                                                               | 3. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline<br>Solubility: ≥ 2.5 mg/mL (7.34 mM); Clear solution                 |                                                       |      |           |            |            |
|                                                                               | 4. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>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> . |

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

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. |

## CUSTOMER VALIDATION

- Nat Commun. 2022 Oct 14;13(1):6081.
- Microbiome. 2024 Feb 5;12(1):20.
- Acta Pharm Sin B. 21 July 2021.
- Pharmacol Res. 2022 Sep 21;106459.
- NPJ Biofilms Microbiomes. 2023 Feb 8;9(1):8.

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

## 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.**

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