



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC Handels GmbH

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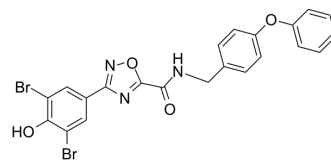
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## IOWH-032

|                    |                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-18337                                                                                                                                                                       |
| CAS No.:           | 1191252-49-9                                                                                                                                                                   |
| Molecular Formula: | C <sub>22</sub> H <sub>15</sub> Br <sub>2</sub> N <sub>3</sub> O <sub>4</sub>                                                                                                  |
| Molecular Weight:  | 545.18                                                                                                                                                                         |
| Target:            | CFTR; SARS-CoV                                                                                                                                                                 |
| Pathway:           | Membrane Transporter/Ion Channel; Anti-infection                                                                                                                               |
| Storage:           | <div> <div>Powder</div> <div>-20°C    3 years</div> <div>4°C    2 years</div> </div> <div> <div>In solvent</div> <div>-80°C    2 years</div> <div>-20°C    1 year</div> </div> |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (183.43 mM)

\* "≥" means soluble, but saturation unknown.

|                              | Solvent<br>Concentration | Mass | 1 mg      | 5 mg      | 10 mg      |
|------------------------------|--------------------------|------|-----------|-----------|------------|
|                              |                          |      |           |           |            |
| Preparing<br>Stock Solutions | 1 mM                     |      | 1.8343 mL | 9.1713 mL | 18.3426 mL |
|                              | 5 mM                     |      | 0.3669 mL | 1.8343 mL | 3.6685 mL  |
|                              | 10 mM                    |      | 0.1834 mL | 0.9171 mL | 1.8343 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 (4.59 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (4.59 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

IOWH-032 is a synthetic anti-secretory molecule, is a potent CFTR inhibitor with an IC<sub>50</sub> value of 8 μM. IOWH-032 also is a anti-diarrheal agent<sup>[1][2]</sup>.

#### In Vitro

IOWH-032 (10 μM; 0-72 h) increases the ACE-2 expression in SARS-CoV-2 infected CFBE41o- WT cells<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.  
Western Blot Analysis<sup>[1]</sup>

|            |                |
|------------|----------------|
| Cell Line: | CFBE41o- cells |
|------------|----------------|

|                  |                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------|
| Concentration:   | 10 $\mu$ M                                                                                          |
| Incubation Time: | 0, 24, 48, 72 h                                                                                     |
| Result:          | Increased the ACE-2 expression in SARS-CoV-2 infected CFBE41o- WT cells in a time-dependent manner. |

## CUSTOMER VALIDATION

- Cells. 2023 Feb 28;12(5):776.
- Cells. 2022 Apr 15;11(8):1347.
- Am J Physiol Lung Cell Mol Physiol. 2016 Aug 1;311(2):L192-207.

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

## REFERENCES

- [1]. Lotti V, et al. CFTR Modulation Reduces SARS-CoV-2 Infection in Human Bronchial Epithelial Cells. Cells. 2022 Apr 15;11(8):1347.
- [2]. Thiagarajah JR, et al. CFTR inhibitors for treating diarrheal disease. Clin Pharmacol Ther. 2012 Sep;92(3):287-90.
- [3]. Doyle K, et al. Inhibitors Of The CFTR Chloride Ion Channel As Potential Treatment For Acute Secretory Diarrhea: Development Of 5-membered Heterocycles Suitable For Pre-clinical Evaluation
- [4]. de Hostos EL, et al. Developing novel antisecretory drugs to treat infectious diarrhea. Future Med Chem. 2011 Aug;3(10):1317-25.

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

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