



# SZABO SCANDIC

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- Trockeneiszuschlag
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- Expressversand

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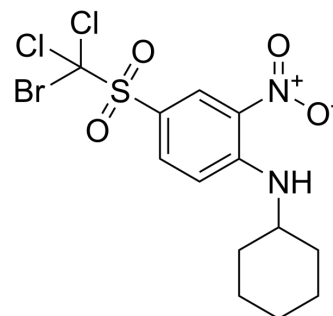
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## WNK1-IN-1

|                    |                                                                                   |       |          |
|--------------------|-----------------------------------------------------------------------------------|-------|----------|
| Cat. No.:          | HY-151545                                                                         |       |          |
| CAS No.:           | 324022-39-1                                                                       |       |          |
| Molecular Formula: | C <sub>13</sub> H <sub>15</sub> BrCl <sub>2</sub> N <sub>2</sub> O <sub>4</sub> S |       |          |
| Molecular Weight:  | 446.14                                                                            |       |          |
| Target:            | Ser/Thr Protease                                                                  |       |          |
| Pathway:           | Metabolic Enzyme/Protease                                                         |       |          |
| 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 : 100 mg/mL (224.14 mM; Need ultrasonic)                                                                                                           |                                                       |      |           |            |            |
|                                                                               | Preparing Stock Solutions                                                                                                                               | <div><div>Solvent</div><div>Concentration</div></div> | Mass | 1 mg      | 5 mg       | 10 mg      |
|                                                                               |                                                                                                                                                         | 1 mM                                                  |      | 2.2414 mL | 11.2072 mL | 22.4145 mL |
|                                                                               |                                                                                                                                                         | 5 mM                                                  |      | 0.4483 mL | 2.2414 mL  | 4.4829 mL  |
|                                                                               |                                                                                                                                                         | 10 mM                                                 |      | 0.2241 mL | 1.1207 mL  | 2.2414 mL  |
| Please refer to the solubility information to select the appropriate solvent. |                                                                                                                                                         |                                                       |      |           |            |            |
| In Vivo                                                                       | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline<br>Solubility: 2.5 mg/mL (5.60 mM); Clear solution; Need ultrasonic |                                                       |      |           |            |            |
|                                                                               | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: 2.5 mg/mL (5.60 mM); Clear solution; Need ultrasonic            |                                                       |      |           |            |            |
|                                                                               | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: 2.5 mg/mL (5.60 mM); Clear solution; Need ultrasonic                            |                                                       |      |           |            |            |
|                                                                               |                                                                                                                                                         |                                                       |      |           |            |            |

### BIOLOGICAL ACTIVITY

|                           |                                                                                                                                                                                                                                                                        |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description               | WNK1-IN-1 is a selective inhibitor of WNK1 with an IC <sub>50</sub> value of 1.6 μM. WNK1-IN-1 inhibits OSR1 phosphorylation with an IC <sub>50</sub> value of 4.3 μM. WNK1-IN-1 can be used for the research of blood pressure regulation and cancer <sup>[1]</sup> . |
| IC <sub>50</sub> & Target | IC <sub>50</sub> : 1.6 μM (WNK1), 4.3 μM (OSR1 phosphorylation) <sup>[1]</sup>                                                                                                                                                                                         |
| In Vitro                  | WNK1-IN-1 (0-1000 μM; 30 min) shows high potency to WNK1 with an IC <sub>50</sub> value of 1.6 μM <sup>[1]</sup> .<br>WNK1-IN-1 (0.2-12.5 μM; 24 h) inhibits endogenous OSR1 phosphorylation with an IC <sub>50</sub> value of 4.3 μM in MDAMB231 breast-              |

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cancer cells<sup>[1]</sup>.

WNK1-IN-1 (0-100 mM) is 10-fold more potent to WNK1 than WNK3 in Kinase-Glo assay<sup>[1]</sup>.

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

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## REFERENCES

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[1]. Rodriguez M, et al. Synthesis and Structural Characterization of Novel Trihalo-sulfone Inhibitors of WNK1. ACS Med Chem Lett. 2022 Sep 23;13(10):1678-1684.

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

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