



# SZABO SCANDIC

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Diagnostik & molekulare Diagnostik



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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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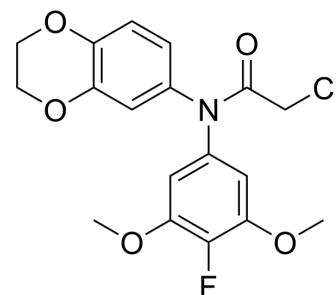
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## GPX4-IN-5

|                    |                                                                                                                                                                      |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-155663                                                                                                                                                            |
| CAS No.:           | 2922824-09-5                                                                                                                                                         |
| Molecular Formula: | C <sub>18</sub> H <sub>17</sub> ClFNO <sub>5</sub>                                                                                                                   |
| Molecular Weight:  | 381.78                                                                                                                                                               |
| Target:            | Glutathione Peroxidase; Ferroptosis                                                                                                                                  |
| Pathway:           | Metabolic Enzyme/Protease; Apoptosis                                                                                                                                 |
| 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 6 months</div> <div>-20°C 1 month</div> </div> |



## SOLVENT & SOLUBILITY

|                                                                               |                                                                                                                                          |                                                       |      |           |            |            |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------|-----------|------------|------------|
| In Vitro                                                                      | DMSO : 100 mg/mL (261.93 mM; Need ultrasonic)                                                                                            |                                                       |      |           |            |            |
|                                                                               | Preparing Stock Solutions                                                                                                                | <div><div>Solvent</div><div>Concentration</div></div> | Mass | 1 mg      | 5 mg       | 10 mg      |
|                                                                               |                                                                                                                                          | 1 mM                                                  |      | 2.6193 mL | 13.0965 mL | 26.1931 mL |
|                                                                               |                                                                                                                                          | 5 mM                                                  |      | 0.5239 mL | 2.6193 mL  | 5.2386 mL  |
|                                                                               |                                                                                                                                          | 10 mM                                                 |      | 0.2619 mL | 1.3097 mL  | 2.6193 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 (6.55 mM); Clear solution |                                                       |      |           |            |            |
|                                                                               | 2. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.5 mg/mL (6.55 mM); Clear solution                            |                                                       |      |           |            |            |

## BIOLOGICAL ACTIVITY

|                           |                                                                                                                                                                                                                            |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description               | GPX4-IN-5 (Compound C18) is a GPX4 covalent inhibitor with an IC <sub>50</sub> value of 0.12 μM. GPX4-IN-5 (Compound C18) can induce ferroptosis for the research of triple-negative breast cancer (TNBC) <sup>[1]</sup> . |
| IC <sub>50</sub> & Target | IC <sub>50</sub> : 0.12 μM (GPX4) <sup>[1]</sup>                                                                                                                                                                           |

## REFERENCES

[1]. Chen T, et al. Discovery of Novel Potent Covalent Glutathione Peroxidase 4 Inhibitors as Highly Selective Ferroptosis Inducers for the Treatment of Triple-Negative

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

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