



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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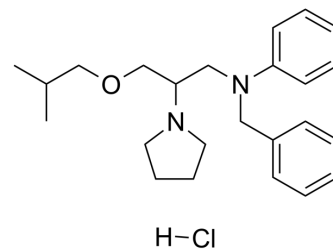
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## Bepridil hydrochloride

|                    |                                                                                     |
|--------------------|-------------------------------------------------------------------------------------|
| Cat. No.:          | HY-103315                                                                           |
| CAS No.:           | 68099-86-5                                                                          |
| Molecular Formula: | C <sub>24</sub> H <sub>35</sub> ClN <sub>2</sub> O                                  |
| Molecular Weight:  | 403                                                                                 |
| Target:            | Calcium Channel                                                                     |
| Pathway:           | Membrane Transporter/Ion Channel; Neuronal Signaling                                |
| Storage:           | -20°C, sealed storage, away from moisture                                           |
|                    | * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



### SOLVENT & SOLUBILITY

|                                                                               |                                                                                                                                             |                                                      |           |            |            |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------|------------|------------|
| In Vitro                                                                      | DMSO : ≥ 150 mg/mL (372.21 mM)<br>H <sub>2</sub> O : 12.5 mg/mL (31.02 mM; Need ultrasonic)<br>* "≥" means soluble, but saturation unknown. |                                                      |           |            |            |
|                                                                               | Preparing<br>Stock Solutions                                                                                                                | <div>Solvent<br/>Concentration</div> <div>Mass</div> | 1 mg      | 5 mg       | 10 mg      |
|                                                                               |                                                                                                                                             | 1 mM                                                 | 2.4814 mL | 12.4069 mL | 24.8139 mL |
|                                                                               |                                                                                                                                             | 5 mM                                                 | 0.4963 mL | 2.4814 mL  | 4.9628 mL  |
|                                                                               |                                                                                                                                             | 10 mM                                                | 0.2481 mL | 1.2407 mL  | 2.4814 mL  |
| Please refer to the solubility information to select the appropriate solvent. |                                                                                                                                             |                                                      |           |            |            |
| In Vivo                                                                       | 1. Add each solvent one by one: PBS<br>Solubility: 25 mg/mL (62.03 mM); Clear solution; Need ultrasonic                                     |                                                      |           |            |            |
|                                                                               | 2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline<br>Solubility: ≥ 2.08 mg/mL (5.16 mM); Clear solution   |                                                      |           |            |            |
|                                                                               | 3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: ≥ 2.08 mg/mL (5.16 mM); Clear solution              |                                                      |           |            |            |
|                                                                               | 4. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.08 mg/mL (5.16 mM); Clear solution                              |                                                      |           |            |            |
|                                                                               |                                                                                                                                             |                                                      |           |            |            |

### BIOLOGICAL ACTIVITY

|                           |                                                                                                 |
|---------------------------|-------------------------------------------------------------------------------------------------|
| Description               | Bepridil hydrochloride (CERM 1978) is a calcium channel blocker, with antianginal activity.     |
| IC <sub>50</sub> & Target | Calcium channel <sup>[1]</sup>                                                                  |
| In Vitro                  | Bepridil hydrochloride is a calcium channel blocker, with antianginal activity <sup>[1]</sup> . |

|         |                                                                                                                                                                                                                                                                                                  |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | MCE has not independently confirmed the accuracy of these methods. They are for reference only.                                                                                                                                                                                                  |
| In Vivo | <p>Bepidil hydrochloride (21 mg/kg) reduces heart rate and mean arterial pressure, decreases the mean coronary vascular resistance and increases stroke volume in rats<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> |

## CUSTOMER VALIDATION

- Eur J Pharm Sci. 2023 May 22;106475.
- Eur J Pharm Sci. 2021, 105889.
- Virology. 2020 Jan 2;539:38-48.
- Virology. 2020 Jan 2;539:38-48.
- Research Square Preprint. 2024 Feb 9.

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

## REFERENCES

[1]. Flaim SF, et al. Effects of bepidil hydrochloride on cardiocirculatory dynamics, coronary vascular resistance, and cardiac output distribution in normal, conscious rats. J Cardiovasc Pharmacol. 1988 Mar;11(3):363-72.

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

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