



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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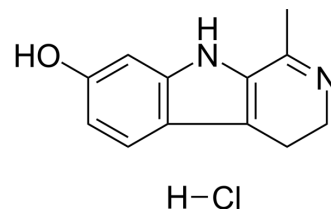
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## Harmalol hydrochloride

|                    |                                                                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-N2625A                                                                                                                                          |
| CAS No.:           | 6028-07-5                                                                                                                                          |
| Molecular Formula: | C <sub>12</sub> H <sub>13</sub> ClN <sub>2</sub> O                                                                                                 |
| Molecular Weight:  | 236.7                                                                                                                                              |
| Target:            | Cytochrome P450                                                                                                                                    |
| Pathway:           | Metabolic Enzyme/Protease                                                                                                                          |
| Storage:           | 4°C, sealed storage, away from moisture and light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



### SOLVENT & SOLUBILITY

|                                                                               |                                                                                                                                                              |                                                       |      |           |            |            |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------|-----------|------------|------------|
| In Vitro                                                                      | DMSO : 100 mg/mL (422.48 mM; Need ultrasonic)                                                                                                                |                                                       |      |           |            |            |
|                                                                               | Preparing Stock Solutions                                                                                                                                    | <div><div>Solvent</div><div>Concentration</div></div> | Mass | 1 mg      | 5 mg       | 10 mg      |
|                                                                               |                                                                                                                                                              | 1 mM                                                  |      | 4.2248 mL | 21.1238 mL | 42.2476 mL |
|                                                                               |                                                                                                                                                              | 5 mM                                                  |      | 0.8450 mL | 4.2248 mL  | 8.4495 mL  |
|                                                                               |                                                                                                                                                              | 10 mM                                                 |      | 0.4225 mL | 2.1124 mL  | 4.2248 mL  |
| Please refer to the solubility information to select the appropriate solvent. |                                                                                                                                                              |                                                       |      |           |            |            |
| In Vivo                                                                       | 1. Add each solvent one by one: 50% PEG300 >> 50% saline<br>Solubility: 5 mg/mL (21.12 mM); Clear solution; Need ultrasonic                                  |                                                       |      |           |            |            |
|                                                                               | 2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline<br>Solubility: 2.5 mg/mL (10.56 mM); Suspended solution; Need ultrasonic |                                                       |      |           |            |            |
|                                                                               | 3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: 2.5 mg/mL (10.56 mM); Suspended solution; Need ultrasonic            |                                                       |      |           |            |            |
|                                                                               | 4. Add each solvent one by one: 0.5% CMC-Na/saline water<br>Solubility: 2 mg/mL (8.45 mM); Suspended solution; Need ultrasonic                               |                                                       |      |           |            |            |
|                                                                               |                                                                                                                                                              |                                                       |      |           |            |            |

### BIOLOGICAL ACTIVITY

|                           |                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description               | Harmalol hydrochloride, a beta carboline alkaloid, presents in several medicinal plants such as Peganum harmala. Harmalol hydrochloride, main metabolite of Harmaline, significantly inhibits the dioxin-mediated induction of CYP1A1 at the transcriptional and posttranslational levels. Harmalol hydrochloride possesses antioxidant and hydroxyl radical-scavenging properties <sup>[1]</sup> . |
| IC <sub>50</sub> & Target | CYP1                                                                                                                                                                                                                                                                                                                                                                                                |

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## REFERENCES

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[1]. El Gendy MA, et al. Harmaline and harmalol inhibit the carcinogen-activating enzyme CYP1A1 via transcriptional and posttranslational mechanisms. Food Chem Toxicol. 2012;50(2):353-362.

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

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