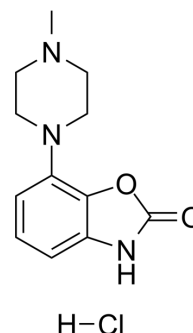


## Pardoprinox hydrochloride

|                           |                                                                                                                                |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Cat. No.:</b>          | HY-14958A                                                                                                                      |
| <b>CAS No.:</b>           | 269718-83-4                                                                                                                    |
| <b>Molecular Formula:</b> | C <sub>12</sub> H <sub>16</sub> ClN <sub>3</sub> O <sub>2</sub>                                                                |
| <b>Molecular Weight:</b>  | 269.73                                                                                                                         |
| <b>Target:</b>            | 5-HT Receptor; Adrenergic Receptor; Dopamine Receptor                                                                          |
| <b>Pathway:</b>           | GPCR/G Protein; Neuronal Signaling                                                                                             |
| <b>Storage:</b>           | 4°C, sealed storage, away from moisture<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



### SOLVENT & SOLUBILITY

|                                                                               |                                                                                                                                                                                                                                                                                                                                                                                               |                      |             |             |             |              |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------|-------------|-------------|--------------|
| <b>In Vitro</b>                                                               | DMSO : 150 mg/mL (556.11 mM; Need ultrasonic)                                                                                                                                                                                                                                                                                                                                                 |                      |             |             |             |              |
|                                                                               | H <sub>2</sub> O : 25 mg/mL (92.69 mM; Need ultrasonic)                                                                                                                                                                                                                                                                                                                                       |                      |             |             |             |              |
|                                                                               | <b>Preparing Stock Solutions</b>                                                                                                                                                                                                                                                                                                                                                              | <b>Solvent</b>       | <b>Mass</b> | <b>1 mg</b> | <b>5 mg</b> | <b>10 mg</b> |
|                                                                               |                                                                                                                                                                                                                                                                                                                                                                                               | <b>Concentration</b> |             |             |             |              |
|                                                                               |                                                                                                                                                                                                                                                                                                                                                                                               | <b>1 mM</b>          |             | 3.7074 mL   | 18.5371 mL  | 37.0741 mL   |
| <b>5 mM</b>                                                                   |                                                                                                                                                                                                                                                                                                                                                                                               |                      | 0.7415 mL   | 3.7074 mL   | 7.4148 mL   |              |
|                                                                               | <b>10 mM</b>                                                                                                                                                                                                                                                                                                                                                                                  |                      | 0.3707 mL   | 1.8537 mL   | 3.7074 mL   |              |
| Please refer to the solubility information to select the appropriate solvent. |                                                                                                                                                                                                                                                                                                                                                                                               |                      |             |             |             |              |
| <b>In Vivo</b>                                                                | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline<br>Solubility: ≥ 7.5 mg/mL (27.81 mM); Clear solution<br>2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: ≥ 7.5 mg/mL (27.81 mM); Clear solution<br>3. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 7.5 mg/mL (27.81 mM); Clear solution |                      |             |             |             |              |

### BIOLOGICAL ACTIVITY

|                                     |                                                                                                                                                                                                                                                                   |                                                   |                                                     |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|
| <b>Description</b>                  | Pardoprinox (SLV-308) hydrochloride is a partial dopamine D2 and D3 receptor partial agonist and a serotonin 5-HT <sub>1A</sub> receptor agonist, with pEC <sub>50</sub> s of 8, 9.2, and 6.3, respectively <sup>[1]</sup> .                                      |                                                   |                                                     |
| <b>IC<sub>50</sub> &amp; Target</b> | 5-HT <sub>1A</sub> Receptor<br>6.3 (pEC <sub>50</sub> )                                                                                                                                                                                                           | D <sub>2</sub> Receptor<br>8 (pEC <sub>50</sub> ) | D <sub>3</sub> Receptor<br>9.2 (pEC <sub>50</sub> ) |
| <b>In Vitro</b>                     | Pardoprinox (SLV-308) hydrochloride acts as a potent but partial D2 receptor agonist (pEC <sub>50</sub> =8.0 and pA <sub>2</sub> =8.4) with an efficacy of 50% on forskolin stimulated cAMP accumulation. At human recombinant dopamine D3 receptors, Pardoprinox |                                                   |                                                     |

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hydrochloride acts as a partial agonist in the induction of [(35)S]GTPgammaS binding (intrinsic activity of 67%; pEC<sub>50</sub>=9.2) and antagonized the dopamine induction of [(35)S]GTPgammaS binding (pA<sub>2</sub>=9.0). Pardoprunox hydrochloride acts as a full 5-HT<sub>1A</sub> receptor agonist on forskolin induced cAMP accumulation at cloned human 5-HT<sub>1A</sub> receptors but with low potency (pEC<sub>50</sub>=6.3)<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]. Glennon JC, et al. In vitro characterization of SLV308 (7-[4-methyl-1-piperazinyl]-2(3H)-benzoxazolone, monohydrochloride): a novel partial dopamine D<sub>2</sub> and D<sub>3</sub> receptor agonist and serotonin 5-HT<sub>1A</sub> receptor agonist. Synapse. 2006 Dec 15;60(8):599-608.

[2]. Jones CA, et al. An in vivo pharmacological evaluation of pardoprunox (SLV308)--a novel combined dopamine D(2)/D(3) receptor partial agonist and 5-HT(1A) receptor agonist with efficacy in experimental models of Parkinson's disease. Eur Neuropsychopharmacol.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA