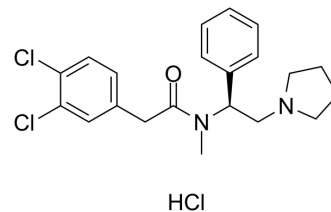


ICI 199441

| | | |
|---------------------------|--|---------------------------------|
| Cat. No.: | HY-101205 | |
| CAS No.: | 115199-84-3 | |
| Molecular Formula: | C ₂₁ H ₂₅ Cl ₃ N ₂ O | |
| Molecular Weight: | 427.8 | |
| Target: | Opioid Receptor | |
| Pathway: | GPCR/G Protein; Neuronal Signaling | |
| 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 : 250 mg/mL (584.39 mM; Need ultrasonic) | | | | |
| | | Solvent Concentration | Mass 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | 1 mM | 2.3375 mL | 11.6877 mL | 23.3754 mL |
| | | 5 mM | 0.4675 mL | 2.3375 mL | 4.6751 mL |
| 10 mM | | 0.2338 mL | 1.1688 mL | 2.3375 mL | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | |
| In Vivo | <ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.86 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.86 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.86 mM); Clear solution | | | | |

BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | ICI 199441 is a potent and selective κ-opioid receptor agonist. ICI 199441 can improve heart resistance to ischemia/reperfusion ^[1] . |
| In Vivo | ICI 199441 (Wistar rats, 0.1 mg/kg, IV, once) administered 15 min before ischemia produces a potent antiarrhythmic effect ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Tsibulnikov SY, et al. Prospects of Using of κ -Opioid Receptor Agonists U-50,488 and ICI 199,441 for Improving Heart Resistance to Ischemia/Reperfusion. Bull Exp Biol Med. 2015;159(6):718-721.

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

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