

Jatrorrhizine chloride

| Chemical F | Properties |
|-------------------|--------------------|
| CAS No.: | 6681-15-8 |
| Formula: | C20H20CINO4 |
| Molecular Weight: | 373.8 |
| Appearance: | N/A |
| Storage: | 0-4°C for short te |

| Biologica | Biological Description | | | | |
|----------------------------|--|--|--|--|--|
| Description | Jatrorrhizine chloride is a potent and orally active uptake-2 transporter inhibitor. It exhibits a critical neuroprotective role in H2O2-induced apoptosis via inhibition of the MAPK pathway in HT22 hippocampal neurons. | | | | |
| Targets(IC ₅₀) | OCT: None PMAT: None | | | | |
| In vitro | Organic cation transporters (OCTs) and the plasma membrane monoamine transporter (PMAT) are major uptake-2 transporters. Jatrorrhizine chloride significantly inhibits the PMAT-mediated MPP+ uptake in a concentration-dependent manner (IC50: 1.05 μ M). Jatrorrhizine chloride demonstrates a more powerful inhibition on 5-HT and norepinephrine (NE) uptake mediated by hOCT2 and hOCT3 than that mediated by PMAT. | | | | |

Solubility Information

| Solubility | DMSO: 5 mg/mL (13.38 mM) |
|------------|---|
| | (< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|-----------|-----------|
| 1 mM | 2.675 mL | 13.376 mL | 26.752 mL |
| 5 mM | 0.535 mL | 2.675 mL | 5.35 mL |
| 10 mM | 0.268 mL | 1.338 mL | 2.675 mL |
| 50 mM | 0.054 mL | 0.268 mL | 0.535 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 $^{\circ}$ C for 6 months; - 20 $^{\circ}$ C for 1 month. Please use it as soon as possible.

Reference

1. Sun S, et al. Jatrorrhizine reduces 5-HT and NE uptake via inhibition of uptake-2 transporters and produces antidepressant-like action in mice. Xenobiotica. 2019 Oct;49(10):1237-1243.

Inhibitors · Natural Compounds · Compound Libraries

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