Product Name: JDTic dihydrochloride

CAS No.: 785835-79-2

Cat. No.: HY-10487

MWt: 538.55

Formula: C28H41Cl2N3O3

Purity: >97%

Solubility: DMSO

Mechanisms:
Pathways: GPCR/G protein; Target: Opioid Receptor
Pathways: Neuronal Signaling; Target: Opioid Receptor

Biological Activity:
JDTic 2HCl is a highly selective antagonist for the κ-opioid receptor; without affecting the μ- or δ-opioid receptors.
IC50 value:
Target: κ-opioid receptor
JDTic is a 4-phenylpiperidine derivative, distantly structurally related to analgesic drugs such as meperidine and ketobemidone, and more closely to the mu opioid antagonist alvimopan, and is structurally distinct from other kappa antagonists such as norbinaltorphimine. JDTic has a very long duration of action, with effects in animals seen for up to several weeks after administration of a single dose, although its binding to the kappa opioid receptor is not irreversible and its long-acting effects are instead caused by altered activity of c-Jun N-terminal kinases. Animal studies suggest that it may produce antidepressant and anxiolytic effects, as well as having possible application in the treatment of addiction...

References:

Caution: Not fully tested. For research purposes only

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