

Product Datasheet

JDTic (orb3029210)

Catalog Number	orb3029210
Category	Small Molecules
Description	JDTic, a 4-phenylpiperidine derivative distantly related to analgesics like meperidine and ketobemidone and more closely to the mu opioid antagonist alvimopan, exhibits a notably long duration of action, maintaining effects in animals for weeks following a single dose. This duration is not due to irreversible binding to the kappa opioid receptor but rather to altered activity of c-Jun N-terminal kinases. As a highly selective antagonist for the κ -opioid receptor, without influencing the μ - or δ -opioid receptors, JDTic has shown potential in animal studies for producing antidepressant and anxiolytic effects. It also demonstrates promise in treating addiction to substances such as cocaine and morphine, distinguishing itself structurally from other kappa antagonists like norbinaltorphimine.
Target	JAK,Opioid Receptor
MW	465.63
CAS Number	361444-66-8
Formula	C ₂₈ H ₃₉ N ₃ O ₃
SMILES	<chem>C[C@@]1([C@@H](C)CN(C[C@@H](NC(=O)[C@H]2CC=3C(CN2)=CC(O)=CC3)C(C)C)CC1)C4=CC(O)=CC=C4</chem>
Storage	-20°C
Note	For research use only
Expiration Date	12 months from date of receipt.

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