

PRODUCT INFORMATION



JTC 801

Item No. 21254

CAS Registry No.: 244218-51-7
Formal Name: N-(4-amino-2-methyl-6-quinoliny)-2-[(4-ethylphenoxy)methyl]-benzamide, monohydrochloride

MF: $C_{26}H_{25}N_3O_2 \cdot HCl$

FW: 448.0

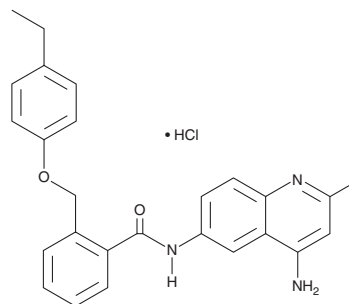
Purity: $\geq 98\%$

UV/Vis.: λ_{max} : 223, 270, 311, 341 nm

Supplied as: A crystalline solid

Storage: $-20^{\circ}C$

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

JTC 801 is supplied as a crystalline solid. A stock solution may be made by dissolving the JTC 801 in the solvent of choice. JTC 801 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of JTC 801 in ethanol is approximately 20 mg/ml and approximately 30 mg/ml in DMSO and DMF.

JTC 801 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, JTC 801 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. JTC 801 has a solubility of approximately 0.16 mg/ml in a 1:5 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

JTC 801 is an antagonist of the nociceptin receptor (ORL1; $K_i = 44.5$ nM; $IC_{50} = 94$ nM) that is >100 -, >100 -, and >3 -fold more selective for ORL1 over the related δ -, κ -, and μ -opioid receptors, respectively.¹ It demonstrates anti-nociceptive effects in acute pain models in mice upon oral administration at 1 mg/kg.¹

Reference

1. Yamada, H. Nakamoto, H., Suzuki, Y., *et al.* Pharmacological profiles of a novel opioid receptor-like1 (ORL1) receptor antagonist, JTC-801. *Br. J. Pharmacol.* **135**(2), 323-332 (2002).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 02/21/2017

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM