SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

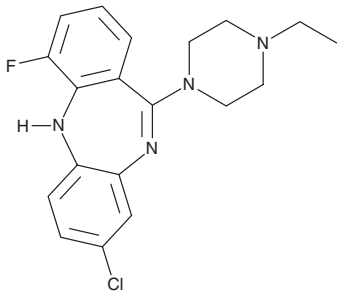
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

JHU37160

Item No. 39531

CAS Registry No.:	2369979-68-8
Formal Name:	8-chloro-11-(4-ethyl-1-piperazinyl)-4-fluoro-5H-dibenzo[b,e][1,4]diazepine
MF:	$C_{19}H_{20}ClFN_4$
FW:	358.8
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

JHU37160 is supplied as a solid. A stock solution may be made by dissolving the JHU37160 in the solvent of choice, which should be purged with an inert gas. JHU37160 is slightly soluble in methanol.

JHU37160 is slightly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

JHU37160 is an activator of designer receptors exclusively activated by designer drugs (DREADDs) derived from human muscarinic acetylcholine receptors (mAChRs).[1] It binds to hM3Dq and hM4Di receptors (K_is = 1.9 and 3.6 nM, respectively) and induces $G\alpha_{o1}$ activation in HEK293 cells expressing hM3Dq or hM4Di (EC_{50}s = 18.5 and 0.2 nM, respectively). *In vivo*, JHU37160 (0.01-1 mg/kg) inhibits locomotor activity in D1-hM3Dq and D1-hM4Di transgenic mice.

Reference

1. Bonaventura, J., Eldridge, M.A.G., Hu, F., *et al.* High-potency ligands for DREADD imaging and activation in rodents and monkeys. *Nat. Commun.* **10(1),** 4627 (2019).

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, 11/15/2023

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