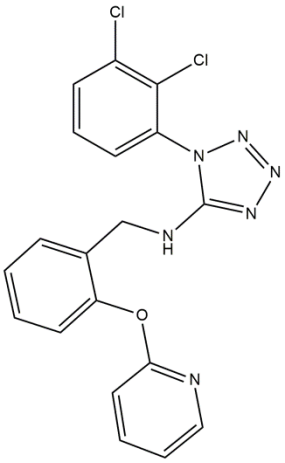
A-839977

01/20

ALTERNATE NAME: 1-(2,3-dichlorophenyl)-N-[(2-pyridin-2-yloxyphenyl)methyl]tetrazol-5-amine

CATALOG #:
B2973-5 5 mg
B2973-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{19}H_{14}Cl_2N_6O$

MOLECULAR WEIGHT: 413.26

CAS NUMBER: 870061-27-1

APPEARANCE: Solid

PURITY: 98%

SOLUBILITY: Soluble in DMSO

DESCRIPTION: A-839977 is a potent antagonist of the purinergic receptor P2X subtype 7 (P2X7). A-839977 potently blocks BzATP-induced calcium influx at recombinant human, rat and mouse P2X7 receptors with IC_{50} values of 20 nM, 42 nM and 150 nM respectively. It also potently blocks agonist-induced YO-PRO uptake and IL-1β release from differentiated human THP-1 cells. It shows antihyperalgesic and antinociceptive effects in animal models of inflammatory pain.

STORAGE TEMPERATURE: -20ºC. Protect from air. Store under desiccating conditions.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

Honore, P., Donnelly-Roberts, D., Namovic, M. et al. The antihyperalgesic activity of a selective P2X7 receptor antagonist, A-839977, is lost in IL-1alphabeta knockout mice. Behav Brain Res. 204(1):77-81 (2009).

RELATED PRODUCTS:

Suramin Hexasodium Salt (Cat. No. 1874)
KN-62 (Cat. No. 2495)
BPTU (Cat. No. B2323)
JNJ-47965567 (Cat. No. B2972)
Triclopidine hydrochloride (Cat. No. B1141)

DISCLAIMER: ***FOR RESEARCH USE ONLY! Not to be used on humans.***