

Product Data Sheet

Product Name: ORM-10103

Cat. No.: GC36814

Chemical Properties

Cas. No. 488847-28-5

SMILES O=[N+](C1=CN=C(OC2=CC=C3C(CCC(C4=CC=CC=C4)O3)=C2)C=C1)[O-]

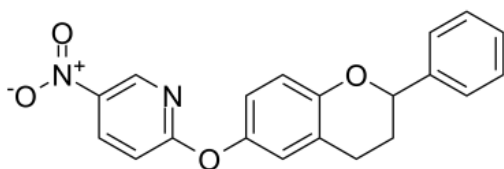
Formula $C_{20}H_{16}N_2O_4$ M.Wt 348.35

Solubility DMSO: 250 mg/mL (717.67 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

ORM-10103 is a specific inhibitor of the Na^+/Ca^{2+} exchanger (NCX), which decreases the NCX current with estimated IC_{50} s of 55 and 67 nM at -80 and at 20 mV, respectively [1][2]. IC_{50} : 55 (NCX -80 mV), 67 nM (NCX 20 mV) [2].

[1]. Jost N, et al. ORM-10103, a novel specific inhibitor of the Na^+/Ca^{2+} exchanger, decreases early and delayed afterdepolarizations in the canine heart. *Br J Pharmacol*. 2013 Oct;170(4):768-78. [2]. Kohajda Z, et al. The Effect of a Novel Highly Selective Inhibitor of the Sodium/Calcium Exchanger

Caution: Product has not been fully validated for medical applications. For research use only.

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(NCX) on Cardiac Arrhythmias in In Vitro and In Vivo Experiments. PLoS One. 2016 Nov 10;11(11):e0166041.

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