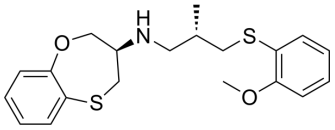
F15845

Cat. No.:	HY-19463A
CAS No.:	470454-73-0
Molecular Formula:	$C_{20}H_{25}NO_2S_2$
Molecular Weight:	375.55
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	F 15845 is a highly effective persistent sodium current blocker. F 15845 also is a cardioprotective agent, has anti-ischemic activity and exerts short- and long-term cardioprotection after myocardial infarction. F 15845 can be used for the research of myocardium functional impairment[1].
In Vitro	F 15845 (10 nM-10 μM) concentration-dependently reduces veratrine-induced diastolic contracture with an IC_{50} value of 0.14 μM in isolated atria[1]. F 15845 (0.1-10 μM) preserves viability in isolated cardiomyocytes exposed to lysophosphatidylcholine (LPC)[1]. F 15845 (0.3 μM) significantly counteracts [Na^+] increase during no-flow ischemia[1]. F 15845 (0.3 μM, 0-35 min) delays the reduction in [Na^+], but marks and maintains upon reperfusion[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	F 15845 (i.v.; 5 mg/kg) exhibits remarkable cardioprotective properties in anesthetized rat[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Rat[1]
Dosage:	2.5 mg/kg, 5 mg/kg
Administration:	intravenously
Result:	Significantly reduced infarct size, decreased of troponin I levels and limited the long-term expansion of infarct size.

REFERENCES

[1]. Bruno Vié, et al. 3-(R)-[3-(2-methoxyphenylthio-2-(S)-methylpropyl]amino-3,4-dihydro-2H-1,5-benzoxathiepine bromhydrate (F 15845) prevents ischemia-induced heart remodeling by reduction of the intracellular Na+ overload. J Pharmacol Exp Ther. 2009 Sep;330(3):696-703.

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

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