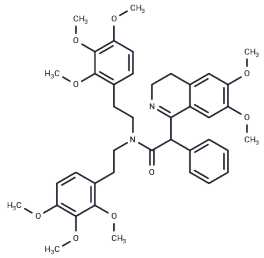
Data Sheet (Cat.No.T70540)

TargetMol

Pinokalant

Chemical Properties



CAS No. : 149759-26-2

Formula: C41H48N2O9

Molecular Weight: 712.83

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Pinokalant (LOE-908) is a novel non-selective cation channel inhibitor.Pinokalant significantly reduces cortical infarct volume in in vivo experiments, improves the metabolic and electrophysiological status of the ischemic penumbra region, and reduces the size of the lesion on magnetic resonance images in the acute phase after middle cerebral artery occlusion in rats.Pinokalant is a potential SARS-CoV-2 protease inhibitor for the study of stroke.
Targets(IC50)	SARS-CoV,TRP/TRPV Channel
In vitro	Pinokalant leads to a substantial decrease in cortical infarct volume, reducing it from 33.8 mm^3 to 24.5 mm^3.[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4029 mL	7.0143 mL	14.0286 mL
5 mM	0.2806 mL	1.4029 mL	2.8057 mL
10 mM	0.1403 mL	0.7014 mL	1.4029 mL
50 mM	0.0281 mL	0.1403 mL	0.2806 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Christensen T, et al. The broad-spectrum cation channel blocker pinokalant (LOE 908 MS) reduces brain infarct volume in rats: a temperature-controlled histological study. Basic Clin Pharmacol Toxicol. 2005;96(4):316-324.
Simard JM, et al. Non-selective cation channels, transient receptor potential channels and ischemic stroke. Biochim Biophys Acta. 2007;1772(8):947-957.
Serdar Durdagi, et al. Screening of Clinically Approved and Investigation Drugs as Potential Inhibitors of SARS-CoV-2 Main Protease and Spike Receptor-Binding Domain Bound with ACE2 COVID19 Target Proteins: A Virtual Drug Repurposing Study. 2020.

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