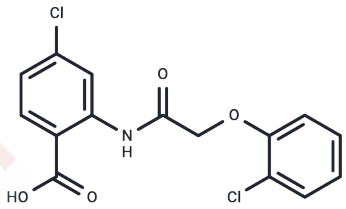
Data Sheet (Cat.No.T9245)

TRPM4-IN-1

Chemical Properties



CAS No. :	351424-20-9
Formula:	C15H11Cl2NO4
Molecular Weight:	340.16
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	TRPM4-IN-1 (4-chloro-2-(2-(2-chlorophenoxy)acetamido)benzoic acid) is a potent and selective inhibitor of TRPM4 with an IC50 of 1.5 μM.
Targets(IC50)	TRP/TRPV Channel
In vitro	TRPM4-IN-1 selectively inhibits TRPM4 overexpressed in HEK293 cells. TRPM4-IN-1 inhibits endogenous TRPM4 currents in LNCaP cells. TRPM4-IN-1 restores functional expression of A432T, a loss-of-expression TRPM4 variant.

Solubility Information

Solubility	DMSO: 83.33 mg/mL (244.97 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 8.33 mg/mL (24.49 mM),Solution. 10% DMSO+90% Saline: < 8.33 mg/mL (24.49 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn Oil: 3.3 mg/mL (9.7 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9398 mL	14.699 mL	29.3979 mL
5 mM	0.588 mL	2.9398 mL	5.8796 mL
10 mM	0.294 mL	1.4699 mL	2.9398 mL
50 mM	0.0588 mL	0.294 mL	0.588 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

1. Ozhathil L C , Delalande C , Bianchi B , et al. Identification of potent and selective small molecule inhibitors of the cation channel TRPM4[J]. British Journal of Pharmacology, 2018.