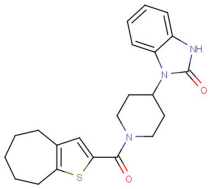
Data Sheet (Cat.No.T15425)

GSK1702934A

Chemical Properties



CAS No.:	924377-85-5
Formula:	C22H25N3O2S
Molecular Weight:	395.52
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	GSK1702934A is a selective TRPC3 agonist. It modulates cardiac contractility and f arrhythmogenesis by activation of TRPC3.
Targets(IC_{50})	TRPC3: None
In vitro	GSK1702934A causes a transient, non-selective conductance and prolonged action potentials in TRPC3-overexpressing myocytes but not in wild-type myocytes. GSK1702934A substantially promotes NCX currents in TRPC3-overexpressing myocytes [2]. GSK1702934A is able to induce TRPC3/6-currents in HEK293 cells transduced with recombinant human TRPC3/6 (EC50s: 0.08 mM and 0.44 mM) [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.528 mL	12.642 mL	25.283 mL
5 mM	0.506 mL	2.528 mL	5.057 mL
10 mM	0.253 mL	1.264 mL	2.528 mL
50 mM	0.051 mL	0.253 mL	0.506 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. de la Cruz GG, et al. Intensified Microwave-Assisted N-Acylation Procedure - Synthesis and Activity Evaluation of TRPC3 Channel Agonists with a 1,3-Dihydro-2H-benzo[d]imidazol-2-one Core. Synlett. 2017 Apr;28(6):695-700.

2. Doleschal B, et al. TRPC3 contributes to regulation of cardiac contractility and arrhythmogenesis by dynamic interaction with NCX1. Cardiovasc Res. 2015 Apr 1;106(1):163-73.

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