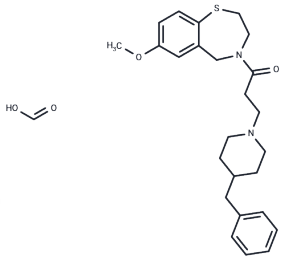
Data Sheet (Cat.No.T11731L)

TargetMol

JTV-519 Formate

Chemical Properties



CAS No. :

Formula: C26H34N2O4S

Molecular Weight: 470.62

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	JTV-519 Formate is a Ca2+-dependent blocker of sarcoplasmic reticulum Ca2+-stimulated ATPase (SERCA). JTV-519 Formate is also a partial agonist of ryanodine receptors in striated muscle. JTV-519 Formate exhibits antiarrhythmic and cardioprotective properties.
Targets(IC50)	Calcium Channel
In vitro	JTV-519 Formate was able to suppress spontaneous Ca2+ release in FK506-treated HEK-293 cells co-expressing RyR2 and FKBP12.6. Furthermore, K201 suppressed spontaneous Ca2+ release in HEK-293 cells expressing RyR2 alone and in cells co-expressing RyR2 and FKBP12.6 with the same potency. [2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1249 mL	10.6243 mL	21.2486 mL
5 mM	0.425 mL	2.1249 mL	4.2497 mL
10 mM	0.2125 mL	1.0624 mL	2.1249 mL
50 mM	0.0425 mL	0.2125 mL	0.425 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

Donald J Hunt, et al. K201 (JTV519) suppresses spontaneous Ca2+ release and [3H]ryanodine binding to RyR2 irrespective of FKBP12.6 association. Biochem J. 2007 Jun 15;404(3):431-8.

Y-J Chen, et al. Effect of K201, a novel antiarrhythmic drug on calcium handling and arrhythmogenic activity of pulmonary vein cardiomyocytes. Br J Pharmacol. 2008 Mar;153(5):915-25.

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