Data Sheet (Cat.No.T11732)



JTV-519 hemifumarate

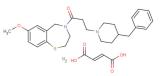
Chemical Properties

CAS No.: 1435938-25-2

Formula: C25H32N2O2S.1/2C4H4O4

Molecular Weight: 482.64
Appearance: N/A

Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	JTV-519 hemifumarate, Antiarrhythmic and cardioprotective properties. is a Ca2+-dependent blocker of sarcoplasmic reticulum Ca2+-stimulated ATPase (SERCA) and a partial agonist of ryanodine receptors in striated muscle.	
Targets(IC ₅₀)	Others: None	
In vitro	JTV-519 inhibits inward Ca2+ movement into large unilamellar vesicles (LUV) caused by annexin V in a dose-dependent manner. In the presence of 50 nM annexin V and 400 µM Ca2+, 3 µM JTV-519 shows significant inhibition of Ca2+ movement due to annexin V, and 50% inhibition is achieved at 25 µM K201.	
In vivo	JTV-519 improves cardiac function in CLP mice, where the fractional shortening (FS) and ejection fraction (EF) are significantly increased as compared with CLP mice without JTV-519 treatment.	

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.072 mL	10.36 mL	20.719 mL
5 mM	0.414 mL	2.072 mL	4.144 mL
10 mM	0.207 mL	1.036 mL	2.072 mL
50 mM	0.041 mL	0.207 mL	0.414 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- 1. Darcy YL, et al. K201 (JTV519) is a Ca
- 2. Kaneko N, et al. Inhibition of annexin V-dependent Ca2+ movement in large unilamellar vesicles by K201, a new 1,4-benzothiazepine derivative. Biochim Biophys Acta. 1997 Nov 13;1330(1):1-7.
- 3. Yang J, et al. Toll-like receptor 4-induced ryanodine receptor 2 oxidation and sarcoplasmic reticulum Ca

Page 1 of 2 www.targetmol.com

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only \cdot Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street, Wellesley Hills, MA 02481

Page 2 of 2 www.targetmol.com