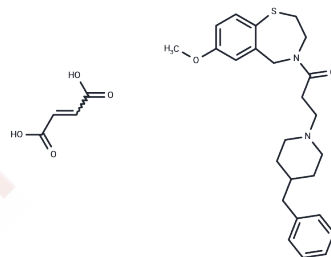


JTV-519 fumarate

Chemical Properties

CAS No. :	1883549-36-7
Formula:	C ₂₉ H ₃₆ N ₂ O ₆ S
Molecular Weight:	540.67
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 fumarate (K201 fumarate) is a SERCA blocker and partial agonist at the ryanodine receptor with antiarrhythmic and cardioprotective effects, improves sarcoplasmic reticulum calcium leakage, and may be useful in the study of anxiety disorders.
Targets(IC50)	Others, Calcium Channel

Solubility Information

Solubility	DMSO: 54.07 mg/mL (100.01 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8496 mL	9.2478 mL	18.4956 mL
5 mM	0.3699 mL	1.8496 mL	3.6991 mL
10 mM	0.185 mL	0.9248 mL	1.8496 mL
50 mM	0.037 mL	0.185 mL	0.3699 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

Darcy YL, et al. K201 (JTV519) is a Ca²⁺-Dependent Blocker of SERCA and a Partial Agonist of Ryanodine Receptors in Striated Muscle. *Mol Pharmacol*. 2016 Aug;90(2):106-15.

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.

Yoshizawa K, et al. Benzothiazepines, diltiazem and JTV-519, exert an anxiolytic-like effect via neurosteroid biosynthesis in mice. *J Pharmacol Sci*. 2020 Jul;143(3):234-237.

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