

AVE-0118

Chemical Properties

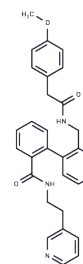
CAS No. : 498577-53-0

Formula: C₃₀H₂₉N₃O₃

Molecular Weight: 479.57

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	AVE-0118 is a potassium channel blocker and suppresses persistent atrial fibrillation.
Targets(IC50)	Potassium Channel

Solubility Information

Solubility DMSO: 55 mg/mL (114.69 mM), Sonication is recommended.
(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0852 mL	10.426 mL	20.852 mL
5 mM	0.417 mL	2.0852 mL	4.1704 mL
10 mM	0.2085 mL	1.0426 mL	2.0852 mL
50 mM	0.0417 mL	0.2085 mL	0.417 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

Burashnikov A, et al. Atrial-selective prolongation of refractory period with AVE0118 is due principally to inhibition of sodium channel activity. *J Cardiovasc Pharmacol.* 2012 Jun;59(6):539-46.

Wirth KJ, Steinmeyer K, Ruetten H. Sensitization of upper airway mechanoreceptors as a new pharmacologic principle to treat obstructive sleep apnea: investigations with AVE0118 in anesthetized pigs. *Sleep.* 2013 May 1;36(5):699-708.

Christ T, et al. Pathology-specific effects of the IK_{Kr}/I_{Ko}/I_KACh blocker AVE0118 on ion channels in human chronic atrial fibrillation. *Br J Pharmacol.* 2008 Aug;154(8):1619-30.

Schneider HJ, et al. Safety of the novel atrial-selective K⁺-channel blocker AVE0118 in experimental heart failure. *Naunyn Schmiedeberg's Arch Pharmacol.* 2009 Mar;379(3):225-32.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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