

AZD 7009

## Chemical Properties

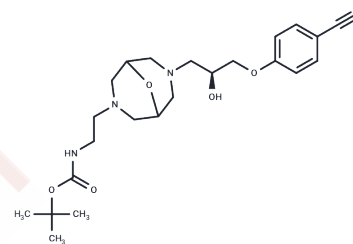
CAS No. : 335619-18-6

Formula: C<sub>23</sub>H<sub>34</sub>N<sub>4</sub>O<sub>5</sub>

Molecular Weight: 446.54

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	AZD 7009 is a novel antiarrhythmic compound that inhibits the sodium current of hNav1.5 in CHO K1 cells with an IC <sub>50</sub> of 11 μM. AZD 7009 inhibited late sodium current in isolated rabbit atrial and ventricular myocytes, and prolonged E-4031-induced action potential duration, promoting early post-depolarization of Purkinje fibers (EADs).
Targets(IC <sub>50</sub> )	Potassium Channel,Sodium Channel

## Solubility Information

Solubility	DMSO: 60 mg/mL (134.37 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	2.2394 mL	11.1972 mL	22.3944 mL
5 mM	0.4479 mL	2.2394 mL	4.4789 mL
10 mM	0.2239 mL	1.1197 mL	2.2394 mL
50 mM	0.0448 mL	0.2239 mL	0.4479 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

Aunes-Jansson M, et al. Decrease of the atrial fibrillatory rate, increased organization of the atrial rhythm and termination of atrial fibrillation by AZD7009. *J Electrocardiol.* 2013 Jan-Feb;46(1):29-35.

Persson F, et al. Functional effects of the late sodium current inhibition by AZD7009 and lidocaine in rabbit isolated atrial and ventricular tissue and Purkinje fibre. *Eur J Pharmacol.* 2007 Mar 8;558(1-3):133-43.

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