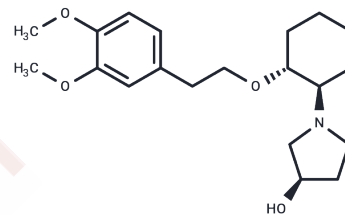


## Vernakalant

## Chemical Properties

CAS No. :	794466-70-9
Formula:	C <sub>20</sub> H <sub>31</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	349.46
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	Vernakalant (RSD-1235) is a mixed ion channel blocker.
Targets(IC50)	Potassium Channel
In vivo	Vernakalant can terminate acute atrial fibrillation (AF) in humans at 2 to 5 mg/kg and maybe more atrial-selective than available agents [1].

## Solubility Information

Solubility	DMSO: Soluble, ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8616 mL	14.3078 mL	28.6156 mL
5 mM	0.5723 mL	2.8616 mL	5.7231 mL
10 mM	0.2862 mL	1.4308 mL	2.8616 mL
50 mM	0.0572 mL	0.2862 mL	0.5723 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

Dorian, Paul MD et al. The Effect of Vernakalant (RSD1235), an Investigational Antiarrhythmic Agent, on Atrial Electrophysiology in Humans. *Journal of Cardiovascular Pharmacology*: July 2007 - Volume 50 - Issue 1 - pp 35-40.

Jodene Eldstrom et al. The Molecular Basis of High-Affinity Binding of the Antiarrhythmic Compound Vernakalant (RSD1235) to Kv1.5 Channels. *Molecular Pharmacology* December 2007 vol. 72 no. 6 1522-1534

Vernakalant. Too dangerous in atrial fibrillation. *Prescrire Int.* 2012 May;21(127):119-22.

Carina Blomström-Lundqvist, Per Blomström. Safety and efficacy of pharmacological cardioversion of atrial fibrillation using intravenous vernakalant, a new antiarrhythmic drug with atrial selectivity. *Expert Opin Drug Saf.* 2012 Jul;11(4):671-9. Epub 2012 May 26.

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