

Product Name: Ibutilide Fumarate Revision Date: 01/10/2021

Product Data Sheet

Ibutilide Fumarate

Cat. No.:	B2278
CAS No.:	122647-32-9
Formula:	(C20H36N2O3S)2·C4H4O4
M.Wt:	885.23
Synonyms:	
Target:	Membrane Transporter/Ion Channel
Pathway:	Sodium Channel
Storage:	Store at -20°C

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Solvent & Solubility

	≥25.6 mg/mL in DM	\geq 25.6 mg/mL in DMSO; \geq 16.4 mg/mL in H2O with ultrasonic; \geq 2.69 mg/mL in EtOH with ultrasonic				
Preparing In Vitro Stock Solution		Mass Solvent Concentration	1mg	5mg	10mg	
	Slock Solutions	1 mM	1.1296 mL	5.6482 mL	11.2965 mL	
	018	5 mM	0.2259 mL	1.1296 mL	2.2593 mL	
	PERF	10 mM	0.1130 mL	0.5648 mL	1.1296 mL	

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

Class III antiarrhythmic agent

IC₅₀ & Target

In Vitro

Neonatal rat cardiomyocytes		
e solubility of this compound in DMSO is >10 mM. General tips for obtainin		
higher concentration: Please warm the tube at 37°C for 10 minutes and/o		
ake it in the ultrasonic bath for a while. Stock solution can be stored belo		
0°C for several months.		
-8 to 10-3 mol/L for 4-12 h		
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	Applications:	Ibutilide protected against H2O2-induced cardiomyocytes injury through			
		inhibiting endoplasmic reticulum and mitochondrial stress pathways.			
	Animal experiment				
In Vivo	Animal models:	Open-chest beagles model			
	Dosage form:	10 μg/kg, intravenous administration, for 10 min; 0.1 mg/kg/h			
	Applications:	Ibutilide significantly decreased defibrillation threshold through the reduction of activation pattern complexity during ventricular fibrillation in canine hearts.			
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility slightly differ with the theoretical value. This is caused by an experime system error and it is normal.			

Product Citations

See more customer validations on www.apexbt.com.



References

Wang, Y., Wang, Y. L., Huang, X., Yang, Y., Zhao, Y. J., Wei, C. X. and Zhao, M. (2016) Ibutilide protects against cardiomyocytes injury via inhibiting endoplasmic reticulum and mitochondrial stress pathways. Heart Vessels
Jin, Q., Zhou, J., Zhang, N., Lin, C. J., Pang, Y., Gu, G., Shen, W. F. and Wu, L. Q. (2012) Ibutilide decreases defibrillation threshold by the reduction of activation pattern complexity during ventricular fibrillation in canine hearts. Chin Med J (Engl). 125, 2701-2707

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



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