



Product Information

Product ID N3422

CAS No. 130656-51-8

Chemical Name 6-[2-[(N-2-Hydroxyethyl)-3-(4-nitrophenyl)-propyl- amino(ethylamino) -1,3-dimethyl-1H,3H - pyrimidine- 2,4-dione monohydrochloride

Synonym MS 551

Formula $C_{19}H_{27}N_5O_5 \cdot HCl$

Formula Wt. 441.91

Melting Point

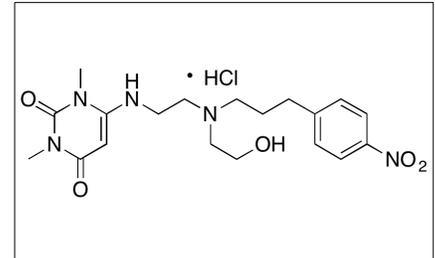
Purity $\geq 98\%$

Solubility

Store Temp Ambient

Ship Temp Ambient

Description Nifekalant is an antagonist at potassium channels that is clinically used to treat ventricular tachyarrhythmia; it is a class III anti-arrhythmic that increases the time course of myocardial repolarization and may prolong the QT interval. Nifekalant may also be used to treat atrial fibrillation, as it increases right atrial monophasic action potential duration and the atrial effective refractory period in subjects with atrial fibrillation.



Bulk quantities available upon request

Product ID	Size
N3422	5 mg
N3422	10 mg
N3422	25 mg

References Harayama N, Nihei SI, Nagata K, et al. Comparison of nifekalant and amiodarone for resuscitation of out-of-hospital cardiopulmonary arrest resulting from shock-resistant ventricular fibrillation. *J Anesth.* 2014 Jan 5. [Epub ahead of print]. PMID: 24389941.

Sonoda K, Watanabe I, Ohkubo K, et al. Rate-dependent electrophysiologic effects of the class III antiarrhythmic drugs nifekalant, amiodarone, and ibutilide on the atrium in patients with persistent atrial fibrillation. *Int Heart J.* 2013;54(5):279-84. PMID: 24097216.

Pantazopoulos IN, Troupis GT, Pantazopoulos CN, et al. Nifekalant in the treatment of life-threatening ventricular tachyarrhythmias. *World J Cardiol.* 2011 Jun 26;3(6):169-76. PMID: 21772943.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.