

Cromakalim

Chemical Properties

CAS No.:	94470-67-4
Formula:	C ₁₆ H ₁₈ N ₂ O ₃
Molecular Weight:	286.33
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Cromakalim, a potassium channel-opening vasodilator, acts on ATP-sensitive potassium channels and so causes membrane hyperpolarization, it can be used to treat hypertension as it will relax vascular smooth muscle to lower blood pressure. The active isomer is levromakalim.
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Solubility Information

Solubility	Water: Insoluble 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	3.492 mL	17.462 mL	34.925 mL
5 mM	0.698 mL	3.492 mL	6.985 mL
10 mM	0.349 mL	1.746 mL	3.492 mL
50 mM	0.070 mL	0.349 mL	0.698 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Cecchetti V, Tabarrini O, Sabatini S. From cromakalim to different structural classes of K(ATP) channel openers. *Curr Top Med Chem*. 2006;6(10):1049-68. Review. PubMed PMID: 16787279.
2. Moreau C, Prost AL, Dérand R, Vivaudou M. SUR, ABC proteins targeted by KATP channel openers. *J Mol Cell Cardiol*. 2005 Jun;38(6):951-63. Epub 2005 Feb 19. Review. PubMed PMID: 15910880.
3. Khan IA, Gowda RM. Novel therapeutics for treatment of long-QT syndrome and torsade de pointes. *Int J Cardiol*. 2004 May;95(1):1-6. Review. PubMed PMID: 15159030.
4. Sebillé S, De Tullio P, Boverie S, Antoine MH, Lebrun P, Pirotte B. Recent developments in the chemistry of potassium channel activators: the cromakalim analogs. *Curr Med Chem*. 2004 May;11(9):1213-22. Review. PubMed PMID: 15134515.

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