

Catalog # 10-3228

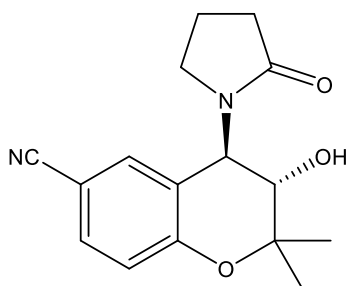
Cromakalim

CAS# 94470-67-4

(±)-*trans*-6-Cyano-3,4-dihydro-2,2-dimethyl-4-(2-oxopyrrolidin-1-yl)-2H-1-benzopyran-3-ol

BRL-34915

Lot # S105088



A potent and selective ATP-sensitive potassium channel (K_{ATP} or Kir6) opener.¹ Dose dependently prevents or suppresses hyperalgesia and allodynia in a sciatic nerve injury model.² Displays ocular hypotensive and neuroprotective properties.³ Attenuates morphine chronic antinociceptive tolerance.⁴

- 1) Sanguinetti *et al.* (1988), *BRL 34915 (cromakalim) activates ATP-sensitive K⁺ current in cardiac muscle*; Proc. Natl. Acad. Sci. USA, **85** 8360
- 2) Wu *et al.* (2011), *Reopening of ATP-sensitive potassium channels reduces neuropathic pain and regulates astroglial gap junctions in the rat spinal cord*; Pain, **152** 2605
- 3) Roy Chowdhury *et al.* (2017), *ATP sensitive potassium channel openers: A new class of ocular hypotensive agents*; Exp. Eye Res., **158** 85
- 4) Cao *et al.* (2016), *Opening of the Adenosine Triphosphate-sensitive Potassium Channel Attenuates Morphine Tolerance by Inhibiting JNK and Astrocyte Activation in the Spinal Cord*; Clin. J. Pain, **32** 617

PHYSICAL DATA

Molecular Weight:	286.33
Molecular Formula:	C ₁₆ H ₁₈ N ₂ O ₃
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml) or Ethanol (up to 10 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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