Print Date: Dec 12th 2017

Certificate of Analysis

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Product Name: **Chromanol 293B** **Catalog No.: 1412** **Batch No.: 1**

CAS Number: 163163-23-3

IUPAC Name: *trans*-*N*-[6-Cyano-3,4-dihydro-3-hydroxy-2,2-dimethyl-2*H*-1-benzopyran-4-yl]-*N*-methyl-ethanesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{20}N_2O_4S$

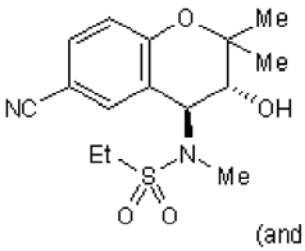
Batch Molecular Weight: 324.39

Physical Appearance: White crystalline solid

Solubility: ethanol to 20 mM
DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



(and enantiomer)

2. ANALYTICAL DATA

TLC: R_f = 0.7 (Dichloromethane:Methanol [9:1])

Melting Point: Between 213 - 216°C

HPLC: Shows 99.5% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.54	6.21	8.64
Found	55.49	6.14	8.57

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Information

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Description:

Blocker of the slow delayed rectifier K^+ current (I_{Ks}) (IC_{50} = 1-10 µM). Also blocks the CFTR chloride current (I_{CFTR}) (IC_{50} = 19 µM). Enantiomer also available.

Physical and Chemical Properties:

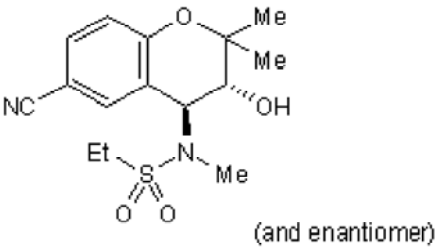
Batch Molecular Formula: $C_{15}H_{20}N_2O_4S$

Batch Molecular Weight: 324.39

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



(and enantiomer)

Storage: Store at RT

Solubility & Usage Info:

ethanol to 20 mM
DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Bachmann *et al* (2001) Chromanol 293B, a blocker of the slow delayed rectifier K^+ current (I_{KS}), inhibits the CFTR Cl^- current. Naunyn Schmiedebergs Arch.Pharmacol. ***363*** 590. PMID: 11414653.

Sun *et al* (2001) Chromanol 293B inhibits slowly activating delayed rectifier and transient outward currents in canine left ventricular myocytes. J.Cardiovasc.Electrophysiol. ***12*** 472. PMID: 11332571.

Fujisawa *et al* (2000) Time-dependent block of the slowly activating delayed rectifier K^+ current by chromanol 293B in guinea-pig ventricular cells. Br.J.Pharmacol. ***129*** 1007. PMID: 10696102.