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## DATASHEET

Chromanol 293B

### Product overview

<b>Name</b>	Chromanol 293B
<b>Cat No</b>	HB0988
<b>Biological action</b>	Blocker
<b>Purity</b>	>99%
<b>Description</b>	K <sub>v</sub> 7.1 channel blocker

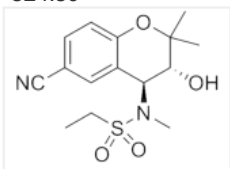
### Biological Data

<b>Biological description</b>	K <sub>v</sub> 7.1 channel blocker (also known as the slow delayed rectifier or I <sub>Ks</sub> channel). Blocks the K <sup>+</sup> current (IC <sub>50</sub> = 1.8 μM). Selective for the KCNQ1 subunit combined with KCNE3 over KCNE1 (IC <sub>50</sub> values are 0.54 and 15.1 μM respectively). Also blocks the CFTR chloride current (I <sub>CFTR</sub> ) and K <sub>v</sub> 4.3 channel I <sub>to</sub> transient outward current (IC <sub>50</sub> values are 19 and 38 μM respectively).
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in ethanol (20mM) or DMSO (100mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	<i>trans-N</i> -[6-Cyano-3,4-dihydro-3-hydroxy-2,2-dimethyl-2H-1-benzopyran-4-yl]-N-methyl-ethanesulfonamide
<b>Molecular Weight</b>	324.39
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>15</sub> H <sub>20</sub> N <sub>2</sub> O <sub>4</sub> S
<b>CAS Number</b>	163163-23-3
<b>PubChem identifier</b>	6483057
<b>SMILES</b>	<chem>O[C@@H]1[C@H](N(C)S(=O)(CC)=O)C2=C(C=CC(C#N)=C2)OC(C)1C.O[C@@H]3[C@@H](N(C)S(=O)(CC)=O)C4=C(C=CC(C#N)=C4)OC(C)3C</chem>
<b>InChiKey</b>	CUJUUXWZQAQHCNC-DOFZRALJSA-N

### References

**Chromanol 293B, a blocker of the slow delayed rectifier K<sup>+</sup> current (I<sub>Ks</sub>), inhibits the CFTR Cl<sup>-</sup> current.**

Bachmann A *et al* (2001) Naunyn Schmiedebergs Arch Pharmacol 363(6)

**PubMedID** [11414653](#)

**Chromanol 293B inhibits slowly activating delayed rectifier and transient outward currents in canine left ventricular myocytes.**

Sun ZQ *et al* (2001) J Cardiovasc Electrophysiol 12(4)

**PubMedID** [11332571](#)

**Ancillary subunits and stimulation frequency determine the potency of chromanol 293B block of the KCNQ1 potassium channel.**

Bett GC *et al* (2006) J Physiol 576(Pt 3)

**PubMedID** [16887873](#)

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