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## DATASHEET

Levcromakalim

### Product overview

<b>Name</b>	Levcromakalim
<b>Cat No</b>	HB1093
<b>Alternative names</b>	BRL 38227
<b>Biological action</b>	Activator
<b>Purity</b>	>99%
<b>Description</b>	K <sub>ir</sub> 6 channel activator

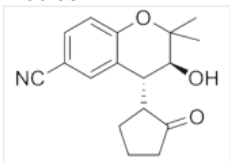
### Biological Data

<b>Biological description</b>	Cromakalim active enantiomer. K <sub>ir</sub> 6 (K <sub>ATP</sub> ) channel activator. Induces a glibenclamide-sensitive, non-inactivating K-current (IKCO) in smooth muscle and inhibits the slow delayed rectifier K-current (ITO). Lowers cholesterol and triglyceride in diabetes, but inhibits insulin. Shows vasodilator actions.
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in DMSO (10mM)
<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>	(3 <i>S</i> ,4 <i>R</i> )-3,4-dihydro-3-hydroxy-2,2-dimethyl-4-(2-oxo-1-pyrrolidinyl)-2 <i>H</i> -1-benzopyran-6-carbonitrile
<b>Molecular Weight</b>	286.33
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>16</sub> H <sub>18</sub> N <sub>2</sub> O <sub>3</sub>
<b>CAS Number</b>	94535-50-9
<b>PubChem identifier</b>	93504
<b>SMILES</b>	<chem>O=C1CCCN1[C@H]2[C@H](O)C(C)(C)OC3=C2C=C(C#N)C=C3</chem>
<b>InChiKey</b>	TVZCRIROJQEVOT-CABCVRRESA-N

### References

**Evaluation of the potassium channel activator levcromakalim (BRL38227) on the lipid profile, electrolytes and blood glucose levels of streptozotocin-diabetic rats.**

Owolabi OJ *et al* (2013) J Diabetes 5(1)

**PubMedID** [23374501](#)

**[Effect of levcromakalim and cromakalim on ATP-sensitive K<sup>+</sup> channel of pulmonary arterial smooth muscle cells in**

**pulmonary hypertensive rats].**

Xiao XR *et al* (2003) Zhonghua Jie He He Hu Xi Za Zhi 26(2)

**PubMedID**

[12783661](#)

**Potassium channel modulation in rat portal vein by ATP depletion: a comparison with the effects of levcromakalim (BRL 38227).**

Noack T *et al* (1992) Br J Pharmacol 107(4)

**PubMedID**

[1467843](#)

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