

DATASHEET

Levcromakalim

Product overview

Name	Levcromakalim
Cat No	HB1093
Alternative names	BRL 38227
Biological action	Activator
Purity	>99%
Description	K _{ir} 6 channel activator

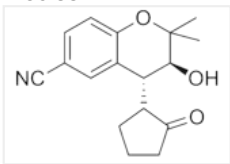
Biological Data

Biological description	Cromakalim active enantiomer. K _{ir} 6 (K _{ATP}) 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.
-------------------------------	---

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (10mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(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
Molecular Weight	286.33
Chemical structure	
Molecular Formula	C ₁₆ H ₁₈ N ₂ O ₃
CAS Number	94535-50-9
PubChem identifier	93504
SMILES	<chem>O=C1CCCN1[C@H]2[C@H](O)C(C)(C)OC3=C2C=C(C#N)C=C3</chem>
InChIKey	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⁺ 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 levromakalim (BRL 38227).

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

PubMedID

1467843
