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DATASHEET

Y-26763

Product overview

Name	Y-26763
Cat No	HB1098
Biological action	Activator
Purity	>98%
Description	K _{ir} 3.4 channel activator

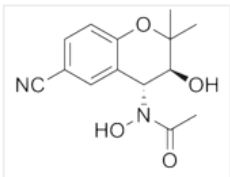
Biological Data

Biological description	K _{ir} 3.4 (ATP-sensitive K ⁺) channel activator (IC ₅₀ = 27 μM). Inhibits noradrenaline-activated Ca ²⁺ release and Ca ²⁺ influx. Displays vasodilating and cardioprotective properties.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in NaOH(aq) (100mM, 1eq. NaOH)
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	<i>N</i> -[(3 <i>S</i> ,4 <i>R</i>)-6-Cyano-3,4-dihydro-3-hydroxy-2,2-dimethyl-2 <i>H</i> -1-benzopyran-4-yl]- <i>N</i> -hydroxy acetamide
Molecular Weight	276.29
Chemical structure	
Molecular Formula	C ₁₄ H ₁₆ N ₂ O ₄
CAS Number	127408-31-5
PubChem identifier	121878
SMILES	CC(=O)N(O)[C@H]1[C@H](O)C(C)(C)OC2=C1C=C(C=C2)C#N
InChi	InChI=1S/C14H16N2O4/c1-8(17)16(19)12-10-6-9(7-15)4-5-11(10)20-14(2,3)13(12)18/h4-6,12-13,18-19H,1-3H3/t12-,13+/m1/s1
InChiKey	IWTCFIIIOUXJOOV-OLZOCXBDSA-N
MDL number	MFCD00888284

References

Y-26763: ATP-sensitive K⁺ channel activation and the inhibition of insulin release from human pancreatic beta-cells.

Cosgrove KE *et al* (2004) Eur J Pharmacol 486(2)

PubMedID [14975702](#)

Effects of a newly synthesized K⁺ channel opener, Y-26763, on noradrenaline-induced Ca²⁺ mobilization in smooth muscle of the rabbit mesenteric artery.

Itoh T *et al* (1994) Br J Pharmacol 111(1)

PubMedID [8012692](#)

Y-27152, a long-acting K⁺ channel opener with less tachycardia: antihypertensive effects in hypertensive rats and dogs in conscious state.

Nakajima T *et al* (1992) J Pharmacol Exp Ther 261(2)

PubMedID [1578381](#)
