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## DATASHEET

Y-26763

### Product overview

<b>Name</b>	Y-26763
<b>Cat No</b>	HB1098
<b>Biological action</b>	Activator
<b>Purity</b>	>98%
<b>Description</b>	K <sub>ir</sub> 3.4 channel activator

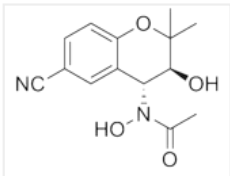
### Biological Data

<b>Biological description</b>	K <sub>ir</sub> 3.4 (ATP-sensitive K <sup>+</sup> ) channel activator (IC <sub>50</sub> = 27 μM). Inhibits noradrenaline-activated Ca <sup>2+</sup> release and Ca <sup>2+</sup> influx. Displays vasodilating and cardioprotective properties.
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in NaOH(aq) (100mM, 1eq. NaOH)
<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>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
<b>Molecular Weight</b>	276.29
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>14</sub> H <sub>16</sub> N <sub>2</sub> O <sub>4</sub>
<b>CAS Number</b>	127408-31-5
<b>PubChem identifier</b>	121878
<b>SMILES</b>	CC(=O)N(O)[C@H]1[C@H](O)C(C)(C)OC2=C1C=C(C=C2)C#N
<b>InChi</b>	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
<b>InChiKey</b>	IWTCFIIUOXJOOV-OLZOCXBDSA-N
<b>MDL number</b>	MFCD00888284

### References

**Y-26763: ATP-sensitive K<sup>+</sup> 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](https://pubmed.ncbi.nlm.nih.gov/14975702/)

**Effects of a newly synthesized K<sup>+</sup> channel opener, Y-26763, on noradrenaline-induced Ca<sup>2+</sup> 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<sup>+</sup> 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](#)

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