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Produktinformation

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- Diagnostik & molekulare Diagnostik
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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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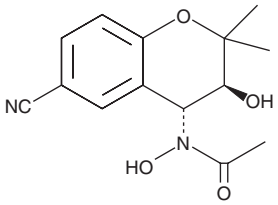
PRODUCT INFORMATION

Y-26763

Item No. 21459

CAS Registry No.: 127408-31-5
Formal Name: N-[(3S,4R)-6-cyano-3,4-dihydro-3-hydroxy-2,2-dimethyl-2H-1-benzopyran-4-yl]-N-hydroxy-acetamide
MF: $C_{14}H_{16}N_2O_4$
FW: 276.3
Purity: ≥98%
UV/Vis.: λ_{max}: 253, 290 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Y-26763 is supplied as a crystalline solid. A stock solution may be made by dissolving the Y-26763 in the solvent of choice. Y-26763 is soluble in organic solvents such as ethanol and DMSO, which should be purged with an inert gas. The solubility of Y-26763 in these solvents is approximately 100 mM.

Description

Y-26763 is an activator of ATP-sensitive potassium (K_{ATP}) channels.[1] It increases the frequency of K_{ATP} channel openings in the presence of ATP and activates K_{ATP} channel currents in isolated human β-cells when used at a concentration of 200 µM. It also inhibits increases in intracellular calcium induced by histamine or norepinephrine (Item No. 16673) in isolated rabbit mesenteric artery smooth muscle in a concentration-dependent manner.[2] Y-26763 induces relaxation in isolated precontracted rat aortic rings (IC_{50} = 0.027 µM).[3] It decreases mean blood pressure in spontaneously hypertensive rats when administered intravenously at a dose of 0.03 mg/kg, an effect that can be reversed by glibenclamide (Item No. 15009).

References

1. Cosgrove, K.E., Straub, S.G., Barnes, P.D., *et al.* Y-26763: ATP-sensitive K^+ channel activation and the inhibition of insulin release from human pancreatic beta-cells. *Eur. J. Pharmacol.* **486(2),** 133-139 (2004).
2. Watanabe, Y., Suzuki, A., Suzuki, H., *et al.* Effect of membrane hyperpolarization induced by a K^+ channel opener on histamine-induced Ca^{2+} mobilization in rabbit arterial smooth muscle. *Br. J. Pharmacol.* **117(6),** 1302-1308 (1996).
3. Nakajima, T., Shinohara, T., Yaoka, O., *et al.* Y-27152, a long-acting K^+ channel opener with less tachycardia: Antihypertensive effects in hypertensive rats and dogs in conscious state. *J. Pharmacol. Exp. Ther.* **261(2),** 730-736 (1992).

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