

**Product Name:** Y-26763

**Catalog No.:** 2076

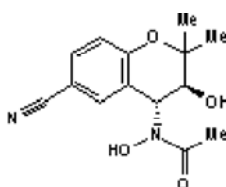
**Batch No.:** 1

CAS Number: 127408-31-5

IUPAC Name: *N*-[(3*S*,4*R*)-6-Cyano-3,4-dihydro-3-hydroxy-2,2-dimethyl-2*H*-1-benzopyran-4-yl]-*N*-hydroxyacetamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>14</sub>H<sub>16</sub>N<sub>2</sub>O<sub>4</sub>  
**Batch Molecular Weight:** 276.29  
**Physical Appearance:** Pale pink solid  
**Solubility:** 1eq. NaOH to 100 mM  
 ethanol to 100 mM  
 DMSO to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.3 (Dichloromethane:Methanol [95:5])  
**HPLC:** Shows 99.7% purity  
**Chiral HPLC:** Shows 99.7% purity  
<sup>1</sup>H NMR: Consistent with structure  
 Mass Spectrum: Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	60.86	5.84	10.14
Found	60.72	5.95	9.86

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Y-26763 is a  $K_{ir}6$  ( $K_{ATP}$ ) channel opener and active metabolite of Y-27152. Relaxes contracted rat aortic rings ( $IC_{50} = 0.027$  mM) and inhibits glucose-induced insulin secretion in isolated human pancreatic  $\beta$ -cells in vitro. Produces hypotension in spontaneously hypertensive rats and displays cardioprotective properties in dogs following systemic administration in vivo.

**Physical and Chemical Properties:**

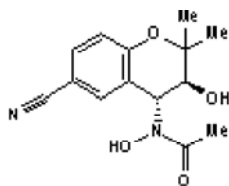
Batch Molecular Formula:  $C_{14}H_{16}N_2O_4$

Batch Molecular Weight: 276.29

Physical Appearance: Pale pink solid

**Minimum Purity:**  $\geq 98\%$

**Batch Molecular Structure:**



**References:**

**Cosgrove et al** (2004) Y-26763: ATP-sensitive  $K^+$  channel activation and the inhibition of Ins release from human pancreatic  $\beta$ -cells Eur.J.Pharmacol. **486** 133. PMID: 14975702.

**Fukunari et al** (1997) Y-26763 protects the canine heart from a stunning injury through opening of the  $K_{ATP}$  channels Eur.J.Pharmacol. **323** 197. PMID: 9128839.

**Nakajima et al** (1992) 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** 730. PMID: 1578381.

**Storage:** Store at RT

**Solubility & Usage Info:**

1eq. NaOH to 100 mM  
ethanol to 100 mM  
DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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