

Product Name: Y-27152

Catalog No.: 2077

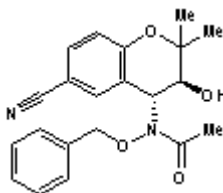
Batch No.: 2

CAS Number: 127408-30-4

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₂N₂O₄
Batch Molecular Weight: 366.41
Physical Appearance: White solid
Solubility: ethanol to 5 mM with gentle warming
DMSO to 25 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 100% purity
Chiral HPLC: Shows 100% purity
¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.84	6.05	7.65
Found	68.71	6.11	7.54

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

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Description:

Prodrug of the K_{ir}6 (K_{ATP}) channel opener Y-26763 (Cat. No. 2076). Inactive in vitro; fails to modify tension in contracted aortic rings at concentrations up to 1 mM. Produces long-lasting antihypertensive effects in vivo, with minimal tachycardia following oral administration in hypertensive animals.

Physical and Chemical Properties:

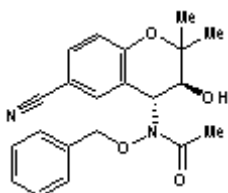
Batch Molecular Formula: C₂₁H₂₂N₂O₄

Batch Molecular Weight: 366.41

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

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.

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.

Storage: Store at RT

Solubility & Usage Info:

ethanol to 5 mM with gentle warming
DMSO to 25 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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