

Certificate of Analysis

Product Name: *N*-[2-(Acetoxy)ethyl]-3-pyridinecarboxamide

Catalog No.: 0385

Batch No.: 1

CAS Number: 83440-03-3

IUPAC Name: *N*-[2-(Acetoxy)ethyl]-3-pyridinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₂N₂O₃·½H₂O

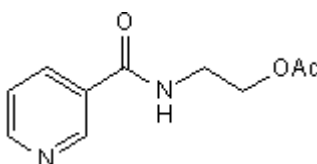
Batch Molecular Weight: 217.23

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >98.9% purity

Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 55.29 | 6.03 | 12.9 |
| Found | 55.7 | 6.07 | 12.59 |

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

Product Name: *N*-[2-(Acetoxy)ethyl]-3-pyridinecarboxamide

Catalog No.: 0385

Batch No.: 1

CAS Number: 83440-03-3

IUPAC Name: *N*-[2-(Acetoxy)ethyl]-3-pyridinecarboxamide

Description:

Analog of nicorandil (Cat No. 2147). A nitrate-free coronary vasodilator; activates K⁺ channels.

Physical and Chemical Properties:

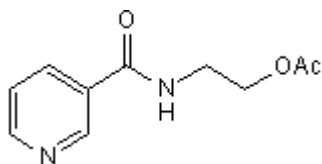
Batch Molecular Formula: C₁₀H₁₂N₂O₃·½H₂O

Batch Molecular Weight: 217.23

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

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.

References:

Ishibashi et al (1991) 2-Nicotinamidoethyl acetate (SG-209) is a potassium channel opener: structure activity relationship among nicorandil derivatives. *Naunyn-Schmiedeberg's Arch. Pharmacol.* **344** 235. PMID: 1658666.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956