

Certificate of Analysis

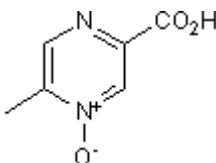
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Product Name: Acipimox
CAS Number: 51037-30-0
IUPAC Name: 5-Methyl-4-oxide-2-pyrazinecarboxylic acid

Catalog No.: 2784
Batch No.: 1
EC Number: 256-928-3

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆H₆N₂O₃·½H₂O
Batch Molecular Weight: 163.13
Physical Appearance: White crystalline solid
Solubility: water to 100 mM
DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 187 - 188°C
HPLC: Shows >99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	4.18	4.32	17.17
Found	44.01	4.19	17.09

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

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Description:

Antilipolytic agent; lowers plasma free fatty acid (FFA), triglyceride (TG), glucose and insulin levels and increases leptin levels.

Physical and Chemical Properties:

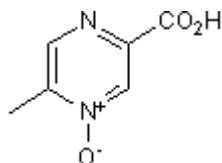
Batch Molecular Formula: C₆H₆N₂O₃·½H₂O

Batch Molecular Weight: 163.13

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water 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.

References:

Lovisolo et al (1981) Pharmacological profile of a new antilipolytic agent: 5-methyl-pyrazine-2-carboxylic acid 4-oxide (acipimox) II - Antilipolytic and blood lipid lowering activity Pharmacol.Res.Comms. **13** 163.

Christie et al (1996) Mechanism of anti-lipolytic action of acipimox in isolated rat adipocytes. Diabetol. **39** 45.

Wang-Fisher et al (2002) Acipimox stimulates leptin production from isolated rat adipocytes. J.Endocrinol. **174** 267. PMID: 12176665.

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