

Certificate of Analysis

Product Name: Piroxicam

Catalog No.: 0960

Batch No.: 4

CAS Number: 36322-90-4

EC Number: 252-974-3

IUPAC Name: 3,4-Dihydro-2-methyl-4-oxo-*N*-2-pyridyl-2*H*-1,2-benzothiazine-3-carboxamide 1,1-dioxide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₃N₃O₄S·¼H₂O

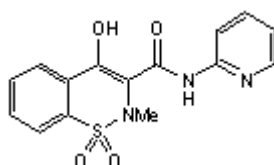
Batch Molecular Weight: 335.85

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.64	4.05	12.51
Found	53.86	3.83	12.56

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

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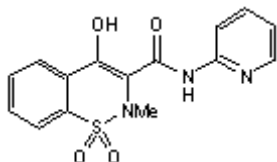
IUPAC Name: 3,4-Dihydro-2-methyl-4-oxo-*N*-2-pyridyl-2*H*-1,2-benzothiazine-3-carboxamide 1,1-dioxide**Description:**

Anti-inflammatory; highly selective inhibitor of COX-1 (ratio of IC₅₀ values for COX-2/COX-1 ~ 600).

Physical and Chemical Properties:Batch Molecular Formula: C₁₅H₁₃N₃O₄S.¼H₂O

Batch Molecular Weight: 335.85

Physical Appearance: White solid

Minimum Purity: >99%**Batch Molecular Structure:****Storage:** Store at RT**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:Merck Index **12** 7661.**Mitchell et al** (1995) Cyclooxygenase-2. Regulation and relevance in inflammation. *Biochem.Pharmacol.* **50** 1535. PMID: 7503754.

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