

Certificate of Analysis

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Product Name: Gliocidin

Catalog No.: 8893

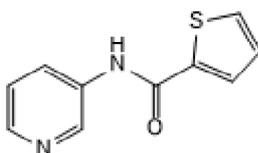
Batch No.: 1

CAS Number: 62289-81-0

IUPAC Name: *N*-3-Pyridinyl-2-thiophenecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₈N₂OS
Batch Molecular Weight: 204.25
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	58.8	3.95	13.72
Found	58.53	3.91	13.74

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

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CAS Number: 62289-81-0

IUPAC Name: *N*-3-Pyridinyl-2-thiophenecarboxamide

Description:

Gliocidin is an IMPDH2 (inosine monophosphate dehydrogenase 2) inhibitor. Gliocidin is a nicotinamide-mimetic prodrug that is anabolized into its tumoricidal metabolite, gliocidin-adenine dinucleotide (GAD). Gliocidin kills glioblastoma cells while sparing non-tumour replicative cells. In vivo, Gliocidin penetrates the blood-brain barrier and extends the survival of mice with orthotopic glioblastoma.

Physical and Chemical Properties:

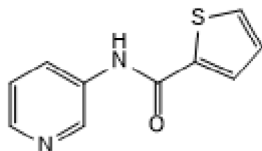
Batch Molecular Formula: C₁₀H₈N₂OS

Batch Molecular Weight: 204.25

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Chen *et al* (2024) Gliocidin is a nicotinamide-mimetic prodrug that targets glioblastoma. *Nature* **636** 466. PMID: 39567689.

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