

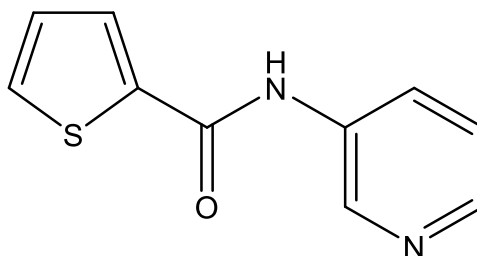
**Catalog #10-3952**

**Gliocidin**

CAS# 62289-81-0

N-(Pyridin-3-yl)thiophen-2-carboxamide

Lot # FBA9299



Gliocidin is a nicotinamide-mimetic prodrug that targets de novo purine biosynthesis vulnerability in glioblastoma ( $IC_{50} = 150$  nM).<sup>1</sup> Gliocidin was converted *via* the NAD<sup>+</sup> salvage pathway to gliocidin-adenine dinucleotide with directly interfered with the activity of IMPDH2 resulting in guanylate depletion and cell death. Displays strong blood brain barrier permeability and suppression of glioblastoma in athymic nude mice. Gliocidin showed synergistic effects with temozolomide. Inhibitor of the SARS 3CL<sup>PRO</sup> protease.<sup>2</sup>

- 1) Chen *et al.* (2024), *Gliocidin is a nicotinamide-mimetic prodrug that targets glioblastoma*; Nature **636** 466
- 2) Zhang *et al.* (2007), *Design, Synthesis, and Evaluation of Inhibitors for Severe Acute Respiratory Syndrome 3C-Like Protease Based on Phthalhydrazide Ketones or Heteroaromatic Esters*; J. Med. Chem. **50** 1850

**PHYSICAL DATA**

Molecular Weight:	204.25
Molecular Formula:	C <sub>10</sub> H <sub>8</sub> N <sub>2</sub> OS
Purity:	>98% (HPLC)
	NMR: (Conforms)
Solubility:	DMSO (at least 60 mg/mL)
Physical Description:	Pale orange solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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