

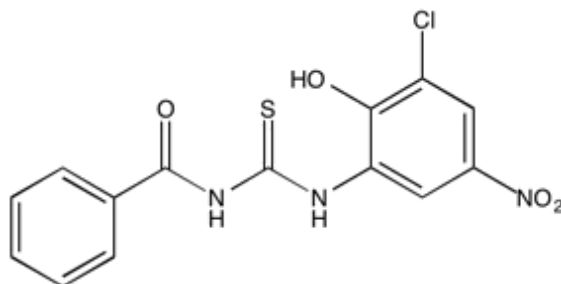
Catalog # 10-1192

PIT-1

CAS# 53501-41-0

N-[[[3-Chloro-2-hydroxy-5-nitrophenyl)amino]thioxomethyl]benzamide

Lot # X106324



PH domain antagonist. Specifically blocks the binding of PIP3 to the Akt pleckstrin homology domain (IC_{50} = 31 μ M). Suppresses PI3K-PDK1-Akt-dependent phosphorylation. Induces apoptosis in PTEN-deficient U87MG glioblastoma cells (IC_{50} = 37 μ M)¹. Inhibiting the binding of PIP3 to effector PH domains is new point of intervention in the PI3K signaling network².

- 1) Miao *et al.* (2010), *Small molecule inhibition of phosphatidylinositol-3,4,5-triphosphate (PIP3) binding to pleckstrin homology domains*; Proc. Natl. Acad. Sci. USA, **107** 20126
- 2) McNamara and Degterev (2011), *Small-molecule inhibitors of the PI3K signaling network*; Future Med. Chem., **3** 549

PHYSICAL DATA

Molecular Weight:	351.76
Molecular Formula:	C ₁₄ H ₁₀ ClN ₃ O ₄ S
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 3 mg/ml)
Physical Description:	Grey solid
Storage and Stability:	Store as supplied, desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

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