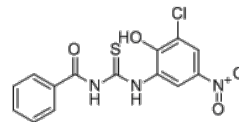


Product Name : PIT-1
Cat. No. : PC-62042
CAS No. : 53501-41-0
Molecular Formula : C₁₄H₁₀ClN₃O₄S
Molecular Weight : 351.76
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

PIT-1 is a specific **PIP3 antagonist** that disrupts PIP3/Akt PH domain binding with IC₅₀ of 30 uM, K_d of 43.2 uM. PIT-1 inhibits interactions of a number of PIP3-binding PH domains, including those of Akt and PDK1, without affecting several PIP2-selective PH domains. PIT-1 suppresses the PI3K-PDK1-Akt pathway and triggers metabolic stress and apoptosis.

References

- Miao B, et al. *Proc Natl Acad Sci U S A*. 2010 Nov 16;107(46):20126-31.
Manna P, et al. *Cell Physiol Biochem*. 2014;33(4):1197-204.
Miao B, et al. *Oncogene*. 2012 Sep 27;31(39):4317-32.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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