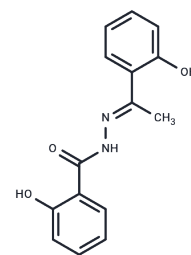


Compound C108

Chemical Properties

CAS No. :	15533-09-2
Formula:	C ₁₅ H ₁₄ N ₂ O ₃
Molecular Weight:	270.28
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Compound C108 is an inhibitor of GTPase-activating protein SH3 domain-binding protein 2 (G3BP2). Compound C108 can be used in studies about breast tumors and esophageal squamous cell carcinoma.
Targets(IC50)	Others,DNA/RNA Synthesis,GTPase
In vitro	In BT474 cells, Compound C108 (1 μ M) shows anti-tumor activity[1]. In G3BP2 overexpressing KYSE410 cells and LINC01554 transfected KYSE30 cells, Compound C108 (4 μ M) reduces the protein expression of G3BP2 and attenuates ESCC cell metastasis, migration and invasion[2].
In vivo	In a mouse xenograft model of breast cancer, compound C108 (1 μ M) reduces the proportion of tumor-initiating cells approximately 10-fold[1].

Solubility Information

Solubility	DMF:PBS(pH 7.2)(1:6): 0.14 mg/mL (0.52 mM),Sonication is recommended. DMF: 1 mg/mL (3.7 mM),Sonication is recommended. DMSO: 11.36 mg/mL (42.03 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6999 mL	18.4993 mL	36.9987 mL
5 mM	0.740 mL	3.6999 mL	7.3997 mL
10 mM	0.370 mL	1.8499 mL	3.6999 mL
50 mM	0.074 mL	0.370 mL	0.740 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Gupta N, et al. Stress granule-associated protein G3BP2 regulates breast tumor initiation. Proc Natl Acad Sci U S A. 2017 Jan 31;114(5):1033-1038.

Zheng Y, et al. G3BP2 regulated by the lncRNA LINC01554 facilitates esophageal squamous cell carcinoma metastasis through stabilizing HDGF transcript. Oncogene. 2022 Jan;41(4):515-526.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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