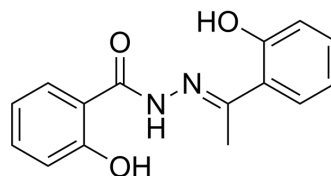


## Compound C108

Cat. No.:	HY-131649
CAS No.:	15533-09-2
Molecular Formula:	C <sub>15</sub> H <sub>14</sub> N <sub>2</sub> O <sub>3</sub>
Molecular Weight:	270.28
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 25 mg/mL (92.50 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	3.6999 mL	18.4993 mL	36.9987 mL	
5 mM	0.7400 mL	3.6999 mL	7.3997 mL	
10 mM	0.3700 mL	1.8499 mL	3.6999 mL	

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Compound C108 is a G3BP2 inhibitor. Compound C108 also targeted stress granule-associated proteins and Gtpase-activating protein (SH3 domain) binding protein 2. Compound C108 potently inhibits esophageal squamous cell carcinoma (ESCC) cell metastasis<sup>[1][2]</sup>.

#### IC<sub>50</sub> & Target

G3BP2<sup>[1]</sup>

#### In Vitro

Compound C108 (1 μM; 24 h) shows anti-tumor activity against BT474 cells<sup>[1]</sup>.  
 Compound C108 (4 μM; 24 h) significantly decreases the protein expression of G3BP2 in G3BP2 overexpressing KYSE410 cells and LINC01554 transfected KYSE30 cells<sup>[2]</sup>.  
 Compound C108 (4 μM; 24 h) attenuates ESCC cell metastasis, migration and invasion in KYSE410, KYSE30 and KYSE150 cells<sup>[2]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.  
 Western Blot Analysis<sup>[2]</sup>

Cell Line: G3BP2-overexpressing KYSE410 cells, LINC01554-transfected KYSE30 cells

	Concentration:	4 $\mu$ M
	Incubation Time:	24 h
	Result:	Decreased the protein level of G3BP2 and HDGF.
<b>In Vivo</b>	Compound C108 (1 $\mu$ M; 24 h) targets and decreases tumor initiating cells (TICs), while injected BT-474 cells treated with Compound C108 into the mammary fat pad of female nonobese diabetic/severe combined immune deficiency (NOD-SCID) mice in a limiting-dilution xenograft assay <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

## REFERENCES

[1]. 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.

[2]. 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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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