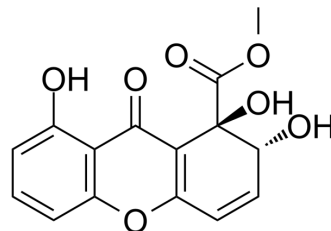


Globosuxanthone A

Cat. No.:	HY-125727
CAS No.:	917091-74-8
Molecular Formula:	C ₁₅ H ₁₂ O ₇
Molecular Weight:	304.25
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Globosuxanthone A is a dihydroxanthone with obvious antifungal activity towards <i>Fusarium graminearum</i> , <i>Fusarium solani</i> , and <i>Botrytis cinerea</i> with MIC values of 4, 8, and 16 µg/mL, respectively. Anticancer activity ^{[1][2]} .
In Vitro	Globosuxanthone A shows cytotoxicities against NCI-H460, MCF-7, SF-268, PC-3, PC-3M, LNCaP, DU-145 cells (IC ₅₀ =0.65-3.6 µM) ^[1] . Globosuxanthone A impairs cell cycle progression of NCI-H460 and PC-3M cells leading to accumulation in the G2/M and S phases ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Miao C, et al. Antifungal xanthenes produced by the endophytic fungus *Paraconionthyrum* sp. YM 311593. *Folia Microbiol (Praha)*. 2020;65(3):567-572.
- [2]. Wijeratne EM, et al. A new dihydroxanthone from a plant-associated strain of the fungus *Chaetomium globosum* demonstrates anticancer activity. *Bioorg Med Chem*. 2006;14(23):7917-7923.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA