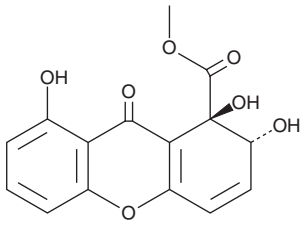
PRODUCT INFORMATION

Globosuxanthone A

Item No. 27486

CAS Registry No.:	917091-74-8
Formal Name:	(1R,2R)-2,9-dihydro-1,2,8-trihydroxy-9-oxo-1H-xanthene-1-carboxylic acid, methyl ester
MF:	$C_{15}H_{12}O_7$
FW:	304.3
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Fungus/Unidentified sp.



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Globosuxanthone A is supplied as a solid. A stock solution may be made by dissolving the globosuxanthone A in the solvent of choice. Globosuxanthone A is soluble in organic solvents such as ethanol, methanol, and DMSO, which should be purged with an inert gas. The solubility of globosuxanthone A in ethanol is approximately 1 mg/ml.

Description

Globosuxanthone A is a fungal metabolite originally isolated from *C. globosum*.[1] It is cytotoxic to various human solid tumor cell lines, including MCF-7, PC3, LNCap, and DU145 cells (IC_{50}s = 1.3, 0.65, 1.5, and 1.2 µM, respectively). It induces accumulation of cells in the G_2/M and S phases of the cell cycle in NCI-H460 and PC3M cells. Globosuxanthone A is also active against *C. albicans* but not *S. aureus*, *E. coli*, or *M. hiemalis*.[2]

References

1. Wijeratne, E.M.K., Turbyville, T.J., Fritz, A., *et al.* A new dihydroxanthenone from a plant-associated strain of the fungus *Chaetomium globosum* demonstrates anticancer activity. *Bioorg. Med. Chem.* **14(23)**, 7917-7923 (2006).
2. Yamazaki, H., Rotinsulu, H., Kaneko, T., *et al.* A new dibenz[*b*,*e*]oxepine derivative, 1-hydroxy-10-methoxy-dibenz[*b*,*e*]oxepin-6,11-dione, from a marine-derived fungus, *Beauveria bassiana* TPU942. *Mar. Drugs* **10(12)**, 2691-2697 (2012).

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