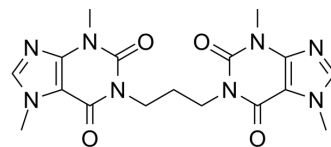


Bisdionin C

Cat. No.:	HY-115661		
CAS No.:	74857-22-0		
Molecular Formula:	C ₁₇ H ₂₀ N ₈ O ₄		
Molecular Weight:	400.39		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 2 mg/mL (5.00 mM; ultrasonic and warming and adjust pH to 3 with 1M HCl and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.4976 mL	12.4878 mL	24.9756 mL
	5 mM	0.4995 mL	2.4976 mL	4.9951 mL
	10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

Bisdionin C is a potent GH18 chitinases inhibitor, with an IC₅₀ of 0.2 μM for *A. fumigatus* ChiB1 (AfChiB1). Bisdionin C inhibits HCHT (human macrophage chitotriosidase) and acidic mammalian chitinase (AMCase) with IC₅₀s of 8.3 and 3.4 μM, respectively^[1].

IC₅₀ & Target

GH18 Chitinases^[1]

REFERENCES

[1]. Schüttelkopf AW, et al. Bisdionin C-a rationally designed, submicromolar inhibitor of family 18 chitinases. ACS Med Chem Lett. 2011;2(6):428-432. Published 2011 Mar 23.

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

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