

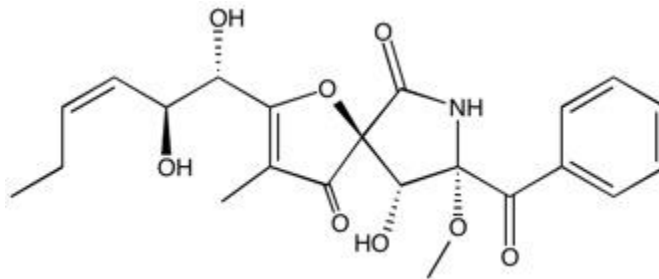
Catalog # 10-2630

Pseurotin A

CAS# 58523-30-1

Fermentation product of *Aspergillus fumigatus*.

Lot # X104218



A fungal metabolite with novel structure. Displays potent neuritogenic activity in PC12 cells. Induces multipolar and branching neurites comparable to that produced by β -NGF.¹ Displays immunosuppressive activity via inhibition of immunoglobulin E production *in vitro*.² Displays antiproliferative effects on four glioma cell lines by regulating tumor metabolic enzymes.³ Inhibits osteoclastogenesis and prevents ovariectomized-induced bone loss by suppression of ROS.⁴

- 1) Komagata *et al.* (1996), *Novel neuritogenic activities of pseurotin A and penicillic acid*; J. Antibiot., **49** 958
- 2) Ishikawa *et al.* (2009), *Pseurotin A and its analogues as inhibitors of immunoglobulin E [correction of immunoglobuline E] production*; Bioorg, Med. Chem. Lett., **19** 1457
- 3) Anjum *et al.* (2018), *Antiglioma pseurotin A from marine Bacillus sp. FS8D regulating tumour metabolic enzymes*; Nat. Prod. Res., **32** 1353
- 4) Chen *et al.* (2019), *Pseurotin A Inhibits Osteoclastogenesis and Prevents Ovariectomized-Induced Bone Loss by Suppressing Reactive Oxygen Species*; Theranostics, **9** 1634

PHYSICAL DATA

Molecular Weight:	431.44
Molecular Formula:	C ₂₂ H ₂₅ NO ₈
Purity:	99% by TLC / HPLC
	NMR: (Conforms)
Solubility:	DMSO
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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