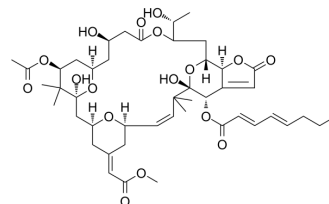


Bryostatin 3

Cat. No.:	HY-108602
CAS No.:	143370-84-7
Molecular Formula:	C ₄₆ H ₆₄ O ₁₇
Molecular Weight:	888.99
Target:	PKC
Pathway:	Epigenetics; TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Bryostatin 3, a macrocyclic lactone, is a protein kinase C activator, with a K _i of 2.75 nM. Bryostatin 3 can block 12-O-tetradecanoylphorbol-13-acetate (TPA) inhibition of cell proliferation, yet did not block TPA-enhanced cell-substratum adhesion ^{[1][2]} .
IC₅₀ & Target	Ki: 2.75 nM (protein kinase C) ^[1]
In Vitro	<p>Bryostatin 3 (1 μM; 24 h) does not inhibit [3H]thymidine incorporation and largely blocks the growth-inhibitory action of TPA [2].</p> <p>Bryostatin 3 (1 μM; 24 h) blocks the action of TPA to inhibit cell proliferation but does not block TPA-enhanced cell-substratum adhesion^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Wender PA, et, al. Modeling of the bryostatins to the phorbol ester pharmacophore on protein kinase C. Proc Natl Acad Sci U S A. 1988 Oct;85(19):7197-201.
- [2]. Mackanos EA, et, al. Bryostatins selectively regulate protein kinase C-mediated effects on GH4 cell proliferation. J Biol Chem. 1991 Jun 15;266(17):11205-12.

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