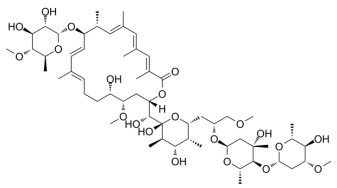
Apoptolidin

Cat. No.:	HY-126679
CAS No.:	194874-06-1
Molecular Formula:	$C_{58}H_{96}O_{21}$
Molecular Weight:	1129.37
Target:	ATP Synthase; Apoptosis
Pathway:	Membrane Transporter/Ion Channel; Apoptosis
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Apoptolidin is a polyketide isolated from Nocardiopsis bacteria[1]. Apoptolidin is a selective mitochondrial F_1F_O ATPase inhibitor. Apoptolidin is an apoptosis inducer and induces apoptotic cell death in cells transformed with the adenovirus type 12 oncogenes including EIA (IC_{50}=10-17 ng/ml) but not in normal cells[1][2].
In Vitro	Apoptolidin has cytotoxicity against normal and transformed cells, it against RG-E1A-7,RG-E1A19K-2, RG-E1A54K-9, RG-E1-4 and Adl2-3Y1 with IC_{50} values of 11 ng/ml,10 ng/ml,13 ng/ml, 10 ng/ml and 17 ng/ml, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. J W Kim, et al. Apoptolidin, a new apoptosis inducer in transformed cells from Nocardiopsis sp. J Antibiot (Tokyo). 1997 Jul;50(7):628-30.

[2]. A R Salomon, et al. Understanding and exploiting the mechanistic basis for selectivity of polyketide inhibitors of F(0)F(1)-ATPase. Proc Natl Acad Sci U S A. 2000 Dec 19;97(26):14766-71.

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