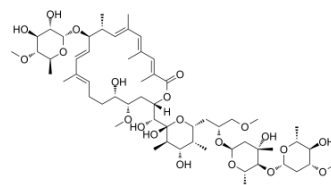


## Apoptolidin

Cat. No.:	HY-126679
CAS No.:	194874-06-1
Molecular Formula:	C <sub>58</sub> H <sub>96</sub> O <sub>21</sub>
Molecular Weight:	1129.37
Target:	ATP Synthase; Apoptosis
Pathway:	Membrane Transporter/Ion Channel; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Apoptolidin is a polyketide isolated from <i>Nocardiosis</i> bacteria <sup>[1]</sup> . Apoptolidin is a selective mitochondrial F <sub>1</sub> F <sub>0</sub> ATPase inhibitor. Apoptolidin is an apoptosis inducer and induces apoptotic cell death in cells transformed with the adenovirus type 12 oncogenes including E1A (IC <sub>50</sub> =10-17 ng/ml) but not in normal cells <sup>[1][2]</sup> .
<b>In Vitro</b>	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 <sub>50</sub> values of 11 ng/ml, 10 ng/ml, 13 ng/ml, 10 ng/ml and 17 ng/ml, respectively <sup>[1]</sup> . 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 *Nocardiosis* 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.

**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