

## Apoptolidin PRODUCT DATA SHEET

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Product Name: Apoptolidin

Product Number: A130

**CAS Number:** 194874-06-1

Molecular Formula:  $C_{58}H_{96}O_{21}$ 

Molecular Weight: 1129.4

**Appearance:** White Lyophilisate

Storage Conditions: -20°C

**Description:** Apoptolidin, originally isolated from a Nocardiopsis sp., induces apoptotic cell

death in rat glial cells transformed with the adenovirus E1A oncogene (IC50 = 11 ng/ml). Apoptolidin is among the most selective cytotoxic agents tested by

the NCI in human cancer cell lines.

Apoptolidin is soluble in ethanol, methanol, DMF and DMSO and has limited

water solubility.

**Mechanism of Action:** The apoptotic activity of apoptolidin correlates with F0F1-ATPase inhibition;

however, recent evidence suggests the existence of a secondary biological

target or more complex mode of action.

**References:** Correlation of F0F1-ATPase inhibition and antiproliferative activity of

apoptolidin analogues. Wender P.A. et al. Org. Lett. 2006, 8, 589.

Apoptolidin: induction of apoptosis by a natural product. Daniel P.T. et al.

Angew. Chem. Int. Ed. Engl. 2006, 45, 872.

Understanding and exploiting the mechanistic basis for selectivity of polyketide inhibitors of F(0)F(1)-ATPase. Salomon A.R. et al. Proc. Natl Acad. Sci. USA

2000, 97, 14766.

Apoptolidin, a new apoptosis inducer in transformed cells from Nocardiopsis

sp. Kim J.W. et al. J. Antibiot. 1997, 50, 628.

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