



# Isoapoptolidin PRODUCT DATA SHEET

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**Product Name:** Isoapoptolidin

**Product Number:** I040

**CAS Number:** 476647-30-0

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

**Molecular Weight:** 1129.4

**Description:** Isoapoptolidin, originally isolated from a *Nocardiosis* sp., is a ring-expanded isomer of apoptolidin. In water, apoptolidin and isoapoptolidin equilibrate in a ratio of ~1.5:1 within hours. In a rapid FOF1-ATPase assay, isoapoptolidin was approximately half as potent as apoptolidin (IC<sub>50</sub> 17  $\mu$ M vs. 0.7  $\mu$ M ).

Isoapoptolidin is soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

**References:** Isoapoptolidin: structure and activity of the ring-expanded isomer of apoptolidin. Wender P.A. et al. *Org. Lett.* 2002, 4, 3819.

Toward a stable apoptolidin derivative: identification of isoapoptolidin and selective deglycosylation of apoptolidin. Pennington J.D. et al. *Org. Lett.* 2002, 4, 3823.

Apoptolidin analogs and derivatives for inducing apoptosis in transformed cells. Wender P.A. et al. US Patent Application, 20040180841.

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