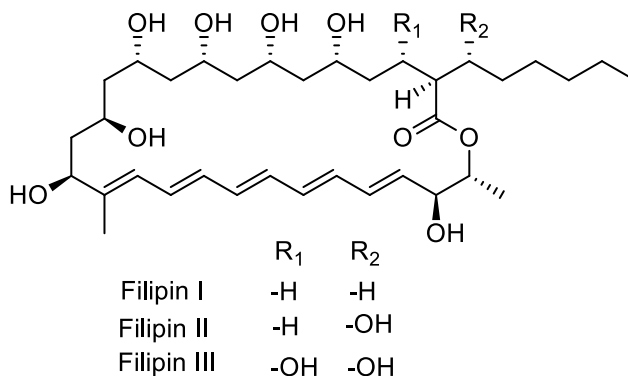


Filipin complex

Code No.: **BIA-F1619**

Pack sizes: **5 mg, 25 mg**



Synonyms :

Specifications

CAS #	: 11078-21-0
Molecular Formula	: C₃₅H₅₈O₁₁ (for Filipin III)
Molecular Weight	: 654.8
Source	: <i>Streptomyces</i> sp.
Appearance	: Yellow solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Filipin complex comprises a family of pentaene macrocyclic lactones first isolated from *Streptomyces filipinensis* and reported by researchers at Upjohn in 1955. Filipin complex consists of four analogues, with filipin III comprising the bulk (>70%) of the complex. Filipin complex is a potent broad spectrum antifungal agent that also exhibits antitumor and antiviral activities. Filipin complex acts by binding cell membrane sterols, disrupting membrane integrity.

References

1. Filipin, an antifungal antibiotic: Isolation and properties. Whitfield G.B. et al., J. Am. Chem. Soc. 1955, 77, 4799.
2. Separation of polyene antifungal antibiotics by high speed liquid chromatography. Mechlinski W. & Schaffner C.P. J. Chromatogr. 1974, 99, 619.
3. Inhibition of fungi by filipin and its antagonism by sterols. Gottlieb D. et al., Phytopathology 1960, 50, 594.