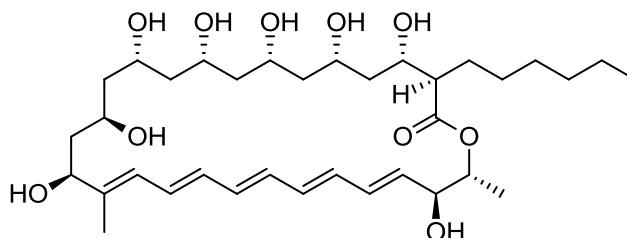


## Filipin II

Code No.: **BIA-F1615**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms :

## Specifications

CAS #	: 38620-77-8
Molecular Formula	: C <sub>35</sub> H <sub>58</sub> O <sub>10</sub>
Molecular Weight	: 638.8
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 II is a minor component of the filipin complex, a family of pentaene antifungal metabolites first isolated from *Streptomyces filipinensis* and reported by researchers at Upjohn in 1955. Structurally, filipin II lacks the hydroxy moiety on the pentyl side chain and is more hydrophobic, eluting later than filipin III on reverse phase HPLC. Filipin II is a potent broad spectrum antifungal agent that also exhibits antitumor and antiviral activities and 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.