

Filipin III PRODUCT DATA SHEET

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Product Name:	Filipin III
Product Number:	F021
CAS Number:	480-49-9
Molecular Formula:	C ₃₅ H ₅₈ O ₁₁
Molecular Weight:	654.8
Appearance:	Pale yellow solid
Storage Conditions:	-20°C
Description:	Filipin III is the major component of the filipin complex, a family of pentaene antifungal metabolites first isolated from Streptomyces filipinensis and reported by researchers at Upjohn in 1955. Filipin III is a potent broad spectrum antifungal agent that also exhibits antitumor and antiviral activities.
	Filipin III is soluble in ethanol, methanol, DMF or DMSO.
Mechanism of Action:	Filipin III acts by binding cell membrane sterols, disrupting membrane integrity. This sterol selectivity has led to the use of filipin III as a routine diagnostic probe for quantifying cholesterol in mammalian cells.
References:	Filipin, an antifungal antibiotic: Isolation and properties. Whitfield G.B. et al. J. Am. Chem. Soc. 1955, 77, 4799.
	Separation of polyene antifungal antibiotics by high speed liquid chromatography. Mechlinski W. & Schaffner C.P. J. Chromatogr. 1974, 99, 619.
	Inhibition of fungi by filipin and its antagonism by sterols. Gottlieb D. et al. Phytopathology 1960, 50, 594.

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