



LKT Laboratories, Inc.

Filipin Complex

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID F334451

CAS No. 11078-21-0

Chemical Name

Synonym Filipin

Formula $C_{35}H_{58}O_{11}$

Formula Wt. 654.84

Melting Point

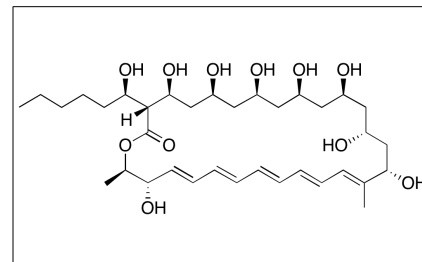
Purity $\geq 97\%$

Solubility

Store Temp -20°C

Ship Temp Ambient

Description Filipin Complex is a mixture of four components: Filipin I, Filipin II, Filipin III, and Filipin IV. These compounds are 28-membered ring polyene macrolide antifungal antibiotics. Filipin complex has been found to alter cell membrane structure by interacting with the membrane sterols ergosterol and cholesterol. As such, filipin complex has become a useful tool for diagnosis of Niemann-Pick type C disease, and for detection and quantification of cholesterol in cell membranes. Filipin complex continues to find use as a marker for cholesterol trafficking in subcellular membranes.



Bulk quantities available upon request

Product ID	Size
F334451	25 mg
F334451	50 mg
F334451	100 mg
F334451	250 mg

References Payero TD, Vicente CM, Rumero A, et al. Functional analysis of filipin tailoring genes from *Streptomyces filipinensis* reveals alternative routes in filipin III biosynthesis and yields bioactive derivatives. *Microb Cell Fact.* 2015 Aug 7;14:114. PMID: 26246267.

Arthur JR, Heinecke KA, Seyfried TN. Filipin recognizes both GM1 and cholesterol in GM1 gangliosidosis mouse brain. *J Lipid Res.* 2011 Jul;52(7):1345-1351. PMID: 21508255.

Xu LH, Fushinobu S, Takamatsu S, et al. Regio- and stereospecificity of filipin hydroxylation sites revealed by crystal structures of cytochrome P450 105P1 and 105D6 from *Streptomyces avermitilis*. *J Biol Chem.* 2010 May 28;285(22):16844-16853. PMID: 20375018.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.