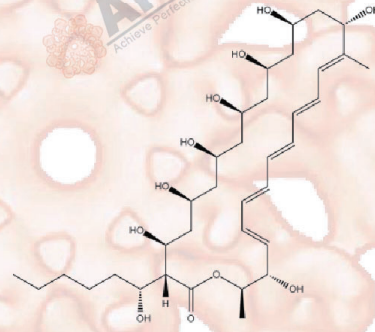


Product Data Sheet

Filipin III

| | |
|------------------|---|
| Cat. No.: | B6034 |
| CAS No.: | 480-49-9 |
| Formula: | C35H58O11 |
| M.Wt: | 654.83 |
| Synonyms: | |
| Target: | Probes & Dyes |
| Pathway: | Probes for Lipoprotein Detection |
| Storage: | Store at -20°C, protect from light. This product is unstable in solution. It is recommended to avoid light and store it separately to avoid repeated freeze-thaw cycles. Use it as soon as possible |



Soluble in DMSO

In Vitro

| Preparing Stock Solutions | Solvent | Mass | 1mg | 5mg | 10mg |
|---------------------------|---------|------|---------------|-----------|------------|
| | | | Concentration | | |
| | 1 mM | | 1.5271 mL | 7.6356 mL | 15.2711 mL |
| | 5 mM | | 0.3054 mL | 1.5271 mL | 3.0542 mL |
| | 10 mM | | 0.1527 mL | 0.7636 mL | 1.5271 mL |

Please refer to the solubility information to select the appropriate solvent

Biological Activity

Shortsummary

cholesterol-binding, fluorescing antibiotic used for the detection of lipoproteins

 IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line: ergosterol-containing ciliary membranes

Preparation method: This compound is soluble in DMSO. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while.

Reacting conditions: 12.7 μM

| | | |
|---------|--------------------------|---|
| | Applications: | Filipin induced lysis of lecithin-cholesterol and lecithin-ergosterol vesicles, but did not lyse vesicles prepared from lecithin alone and from mixtures of lecithin and epicholesterol, thiocholesterol, androstan-3/3-ol, or cholestanol. Filipin treatment of ergosterol-containing ciliary membranes produced annuli with mean diameter almost identical with that in filipin-treated lecithin-ergosterol vesicles. |
| In Vivo | Animal experiment | |
| | Applications: | |
| | Other notes: | Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal. |

Product Citations

1. Siu FY, Ye S, et al. "Galactosylated PLGA nanoparticles for the oral delivery of resveratrol: enhanced bioavailability and in vitro anti-inflammatory activity." Int J Nanomedicine. 2018 Jul 13;13:4133-4144. PMID:30038494
2. Zu-Guo Zheng, Chong Lu, et al. "Praeruptorin B improves diet-induced hyperlipidemia and alleviates insulin resistance via regulating SREBP signaling pathway." RSC Adv., 2018, 8, 354.

See more customer validations on www.apexbt.com.

References

- [1]. Bittman R, Chen W C, Anderson O R. Interaction of filipin III and amphotericin B with lecithin-sterol vesicles and cellular membranes. Spectral and electron microscope studies[J]. Biochemistry, 1974, 13(7): 1364-1373.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



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