
Product Data Sheet

Product Name: Polyphyllin VII

Cat. No.: GN10129

Chemical Properties

Cas. No. 76296-75-8

Chemical Name Polyphyllin VII

Formula $C_{51}H_{84}O_{22}$

M.Wt 1049.2

Solubility $\geq 82.3\text{mg/mL}$ in DMSO

Storage

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Polyphyllin G is isolated from the rhizomes of *Paris yunnanensis*, with antimicrobial and anticancer activity. Polyphyllin G prevents the growth of both Gram-positive and Gram-negative bacteria with minimum inhibitory concentrations (MICs)[1]. Polyphyllin G induces apoptosis dependent on the activations of caspase-8, -3, and -9, induces autophagy[2].

References:

[1]. Cai X, et al. Polyphyllin G exhibits antimicrobial activity and exerts anticancer effects on human oral cancer OECM-1 cells by triggering G2/M cell cycle arrest by inactivating cdc25C-cdc2. *Arch Biochem Biophys*. 2018 Apr 15;644:93-99.

[2]. Hsieh MJ, et al. Polyphyllin G induces apoptosis and autophagy cell death in human oral cancer cells. *Phytomedicine*. 2016 Dec 1;23(13):1545-1554.

Caution: Product has not been fully validated for medical applications. For research use only.

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