

Product Data Sheet

Product Name: PHY34
Cat. No.: GC49084

Chemical Properties

Cas. No. 2130033-55-3

SMILES O=C1C2=C(C3=CC=C(OCO4)C4=C3)C5=CC(OC)=C(OC)C=C5C(O[C@H]6[C@@H]([C@]7([H])[C@](OC(C)(O7)C)([H])[C@H](O6)CO)O)=C2CO1

Formula C₃₀H₃₀O₁₂ M.Wt 582.6

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO: PBS (pH 7.2) (1:3): 0.25 mg/ml, Ethanol: 10 mg/ml
Storage Store at -20°C, protect from light

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.

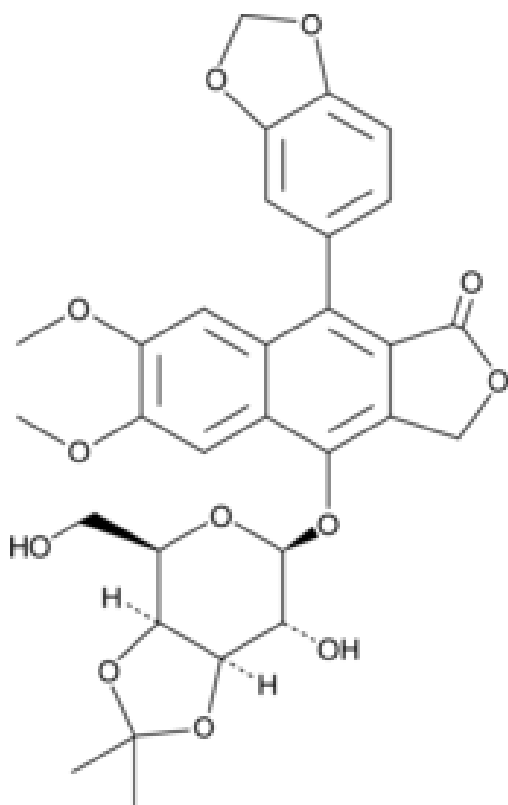
Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

PHY34 is an inhibitor of late-stage autophagy.¹ It is cytotoxic to OVCAR-3 and OVCAR-8 ovarian cancer cells ($IC_{50} = 4$ nM for both) and induces apoptosis in the same cells when used at a concentration of 100 nM. PHY34 increases the number of LC3B puncta and induces autophagosome accumulation in HeLa cells (EC_{50} s = 1.99 and 3.86 nM, respectively). It reduces tumor growth in an OVCAR-8 mouse xenograft model when administered at a dose of 0.75 mg/kg.

1. Young, A.N., Herrera, D., Huntsman, A.C., et al. Phyllanthusmin derivatives induce apoptosis and reduce tumor burden in high-grade serous ovarian cancer by late-stage autophagy inhibition *Mol. Cancer Ther.* 17(10)2123-2135(2018)

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