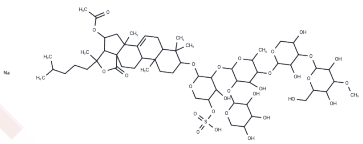
# Data Sheet (Cat.No.T11325)

TargetMol

## Frondoside A

### Chemical Properties



CAS No. : 127367-76-4

Formula: C60H96NaO29S

Molecular Weight: 1336.45

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

### Biological Description

| | |
|---|---|
| Description | possesses anticancer, anti-invasive, anti-metastasis, anti-angiogenic and pro-apoptosis properties with high safety.Frondoside A, a natural glycoside extracted from the sea cucumber, Cucumaria frondosa, |
| Targets(IC50) | Others |
| In vitro | Frondoside A (0-5 μM, 24 hours)causes concentration-dependent reduction in viability of lung and breast cancer cells through a caspase 3/7-dependent cell death pathway. |
| In vivo | Frondoside A (0.01 and 1 mg/kg/ day i.p. for 25 days) significantly decreases the growth, the lymph node metastasis?and angiogenesis of LNM35 tumor xenografts in mice, without obvious toxic side-effects. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 0.7483 mL | 3.7413 mL | 7.4825 mL |
| 5 mM | 0.1497 mL | 0.7483 mL | 1.4965 mL |
| 10 mM | 0.0748 mL | 0.3741 mL | 0.7483 mL |
| 50 mM | 0.015 mL | 0.0748 mL | 0.1497 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Sajwani FH, et al. Frondoside A is a potential anticancer agent from sea cucumbers. J Cancer Res Ther. 2019 Jul-Sep;15(5):953-960.

Attoub S, et al. Frondoside a suppressive effects on lung cancer survival, tumor growth, angiogenesis, invasion, and metastasis. PLoS One. 2013;8(1):e53087.

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