

Alisol F 24-acetate

Chemical Properties

CAS No.:	443683-76-9
Formula:	C32H50O6
Molecular Weight:	530.75
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Alisol F 24-acetate is a natural product from <i>Alisma plantago-aquatica</i> Linn.
Targets(IC ₅₀)	P-gp (P-glycoprotein): None
In vitro	Alisol F 24-acetate (ALI) was a potent P-glycoprotein (P-gp) inhibitor, in the Caco-2-monolayer cell model. ALI showed a significant and concentration-dependent cytotoxic effect on MCF-7/DOX cells in combination with doxorubicin by increasing intracellular accumulation and inducing nuclear migration of doxorubicin. ALI had no such effect on MCF-7 cells. ALI promoted doxorubicin-induced early apoptosis of MCF-7/DOX cells in a time-dependent manner. These results suggest that ALI can enhance chemosensitivity of doxorubicin and reinforce its anti-cancer effect by increasing its uptake, especially inducing its nuclear accumulation in MCF-7/DOX cells.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.884 mL	9.421 mL	18.841 mL
5 mM	0.377 mL	1.884 mL	3.768 mL
10 mM	0.188 mL	0.942 mL	1.884 mL
50 mM	0.038 mL	0.188 mL	0.377 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Li, Tingting, Zeng, et al. Alisol F 24 Acetate Enhances Chemosensitivity and Apoptosis of MCF-7/DOX Cells by Inhibiting P-Glycoprotein-Mediated Drug Efflux[J]. *Molecules*, 2016.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481