Data Sheet (Cat.No.TN6394)

TargetMol
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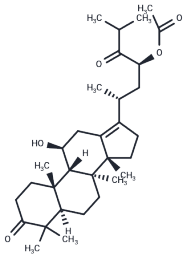
Alisol B acetate

Chemical Properties



CAS No. : 19865-76-0

Formula: C32H50O5

Molecular Weight: 514.74

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Alisol B acetate can induce Bax nuclear translocation and apoptosis in human hormone-resistant prostate cancer PC-3 cells, the Bax activation and translocation from the cytosol to nucleus might be a crucial response to the apoptotic effect. Alisol B acetate exhibits an antiproliferative effect in SGC7901 cells by inducing apoptosis, apoptosis of SGC7901 cells involves mitochondria-caspase and PI3K/Akt dependent pathways.
In vitro	The anti-tumor potential of components from Chinese herbal medicines has been greatly concerned. Alisol B acetate, a triterpene from Alismatis rhizoma, induced apoptotic cell death in human hormone-resistant prostate cancer PC-3 cells in a time- and concentration-dependent manner. METHODS AND RESULTS: A good correlation between loss of mitochondrial membrane potential and apoptotic cell death was apparent indicating the participation of mitochondria-related mechanism. Alisol B acetate induced Bax up-regulation and nuclear translocation; it also induced the activation of initiator caspase-8 and caspase-9, and executor caspase-3, suggesting the involvement of both extrinsic and intrinsic apoptosis pathways. CONCLUSIONS:Taken together, it is suggested that Alisol B acetate induces apoptosis in PC-3 cells via a mitochondria-mediated mechanism with activation of caspase-8, -9 and -3. Furthermore, the Bax activation and translocation from the cytosol to nucleus might be a crucial response to the apoptotic effect.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9427 mL	9.7136 mL	19.4273 mL
5 mM	0.3885 mL	1.9427 mL	3.8855 mL
10 mM	0.1943 mL	0.9714 mL	1.9427 mL
50 mM	0.0389 mL	0.1943 mL	0.3885 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.

Reference

Alisol B acetate, a triterpene from Alismatis rhizoma, induces Bax nuclear translocation and apoptosis in human hormone-resistant prostate cancer PC-3 cells. Cancer Lett., 2006, 231(2):270-8.

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