

## alpha-Terthienylmethanol

**Chemical Properties**

CAS No.:	13059-93-3
Formula:	C13H10OS3
Molecular Weight:	278.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	Alpha-terthienylmethanol possesses potent cytotoxic activity against human endometrial cancer cells; it inhibits growth mediated by the induction of apoptosis, as shown by the accumulation of sub-G1 and apoptotic cells.
Targets(IC <sub>50</sub> )	Others: None
In vitro	$\alpha$ -terthienylmethanol possessed potent cytotoxic activity against human endometrial cancer cells (Hec1A and Ishikawa) (IC <sub>50</sub> < 1 $\mu$ M). The growth inhibitory effect of alpha-Terthienylmethanol was mediated by the induction of apoptosis, as shown by the accumulation of sub-G1 and apoptotic cells. In addition, alpha-Terthienylmethanol triggered caspase activation and cytochrome c release into the cytosol in a time-dependent manner. Moreover, alpha-Terthienylmethanol increased the intracellular level of ROS and decreased that of GSH, and the antioxidants N-acetyl-L-cysteine and catalase significantly attenuated alpha-Terthienylmethanol-induced apoptosis. The inhibition of the NADPH oxidase attenuated alpha-Terthienylmethanol-induced cell death and ROS accumulation in endometrial cancer cells. Overall, these results suggest that alpha-Terthienylmethanol, a naturally occurring terthiophene isolated from <i>E. prostrata</i> , induces apoptosis in human endometrial cancer cells by ROS production, partially via NADPH oxidase.

**Solubility Information**

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.592 mL	17.96 mL	35.92 mL
5 mM	0.718 mL	3.592 mL	7.184 mL
10 mM	0.359 mL	1.796 mL	3.592 mL
50 mM	0.072 mL	0.359 mL	0.718 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.  $\alpha$ -Terthienylmethanol, isolated from *Eclipta prostrata*, induces apoptosis by generating reactive oxygen species via NADPH oxidase in human endometrial cancer cells[J]. *Journal of Ethnopharmacology*, 2015, 169:426-434.

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