

Product Name: Caffeic Acid Phenethyl Ester Revision Date: 01/10/2021



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Caffeic Acid Phenethyl Ester

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Cat. No.:	B1644
CAS No.:	104594-70-9
Formula:	C17H16O4
M.Wt:	284.31
Synonyms:	
Target:	Immunology/Inflammation
Pathway:	NF-κB
Storage:	Store at -20°C

Solvent & Solubility

	≥28.4 mg/mL in DM	\geq 28.4 mg/mL in DMSO; insoluble in H2O; \geq 108.6 mg/mL in EtOH			
In Vitro	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg
		1 mM	3.5173 mL	17.5864 mL	35.1729 mL
		5 mM	0.7035 mL	3.5173 mL	7.0346 mL
		10 mM	0.3517 mL	1.7586 mL	3.5173 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

NF-ĸB activation inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay	and the second
Cell Line:	The human histiocytic cell line U937 cells
Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtainin
	a higher concentration: Please warm the tube at 37°C for 10 minutes and/o
	shake it in the ultrasonic bath for a while. Stock solution can be stored below
	-20°C for several months.
Reacting conditions:	0, 5, 10, 15, 25 and 30 μg/ml; 2 h
	1 www.apexbt.com

	Applications:	In U937 cells, Caffeic Acid Phenethyl Ester (CAPE) inhibited the		
		TNF-dependent activation of NF-KB in a dose-dependent manner, with		
		maximum effect occurring at 25 ug/ml. CAPE (25 ug/ml) also blocked NF-KB		
		activation induced by Phorbol Ester, Ceramide, Okadaic Acid, and Hydrogen		
		Peroxide.		
	Animal experiment	ello		
In Vivo	Animal models:	CT26-bearing BALB/c male mice with pulmonary metastases		
	Dosage form:	10 mg/kg/day, intraperitoneal injection		
	Applications:	In CT26-bearing BALB/c male mice with pulmonary metastases, CAPE		
		decreased tumor colonization in the lung. Mice treated with CAPE survived		
		longer than untreated controls. CAPE reduced plasma VEGF levels by 53.2%.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
		slightly differ with the theoretical value. This is caused by an experimental		
	•	system error and it is normal.		
	Blogen	Blow		
		C En contration		
Product Citations		Printer		

See more customer validations on www.apexbt.com.

References



Caution

FOR RESEARCH PURPOSES ONLY. NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



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