

Product Name: Kaempferol Revision Date: 01/10/2021

OH

Product Data Sheet

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Kaempferol

Cat. No.:	N1719		
CAS No.:	520-18-3		
Formula:	C15H10O6		
M.Wt:	286.24		
Synonyms:	Kempferol		
Target:	Apoptosis		
Pathway:	Apoptosis Inducers		
Storage:	Store at -20°C		
	210		

Solvent & Solubility

	insoluble in H2O; ins	insoluble in H2O; insoluble in EtOH; \geq 12.25 mg/mL in DMSO			
In Vitro	Preparing	Mass Solvent Concentration	1mg	5mg	10mg
		1 mM	3.4936 mL	17.4679 mL	34.9357 mL
		5 mM	0.6987 mL	3.4936 mL	6.9871 mL
	PERMIN	10 mM	0.3494 mL	1.7468 mL	3.4936 mL

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

Biological Activity

Shortsummary

Apoptosis inducer;antioxidant;flavonoid

IC₅₀ & Target

In Vitro

Cell Viability Assay	Particular States
Cell Line:	The human cholangiocarcinoma (CCA) cell lines HCCC9810 and QBC939
Preparation method:	The solubility of this compound in DMSO is >12.3mg/mL. General tips for
	obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes
	and/or shake it in the ultrasonic bath for a while. Stock solution can be stored
	below -20°C for several months.
Reacting conditions:	0, 30, 60, 90, 120, or 150 μM; 24, 48, or 72 h; 37°C

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	Applications:	In CCA cells, kaempferol significantly inhibited the viability and proliferation of		
		CCA cells in a time- and dose-dependent way. Kaempferol reduced the number		
		of colonies and induced apoptosis in a dose-dependent way. Kaempferol also		
		reduced the migration and invasion ability of CCA cells in a dose-dependent		
		manner.		
	Animal experiment	610		
In Vivo	Animal models:	subcutaneous xenograft nude mice model		
	Dosage form:	20 mg/kg/day; daily for 3 weeks; i.p.		
	Applications:	In subcutaneous xenograft nude mice model, kaempferol significantly inhibited		
		the growth of the tumor. The number of Ki-67-positive tumor cells was lower in		
		kaempferol-treated group than that in the control group. Kaempferol reduced		
		the average volume and number of foci per mouse.		
	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		
	BIO	system error and it is normal.		
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Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Qin Y1, Cui W2, Yang X2, et al. Kaempferol inhibits the growth and metastasis of cholangiocarcinoma in vitro and in vivo. Acta Biochim Biophys Sin (Shanghai). 2016 Mar;48(3):238-45.

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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