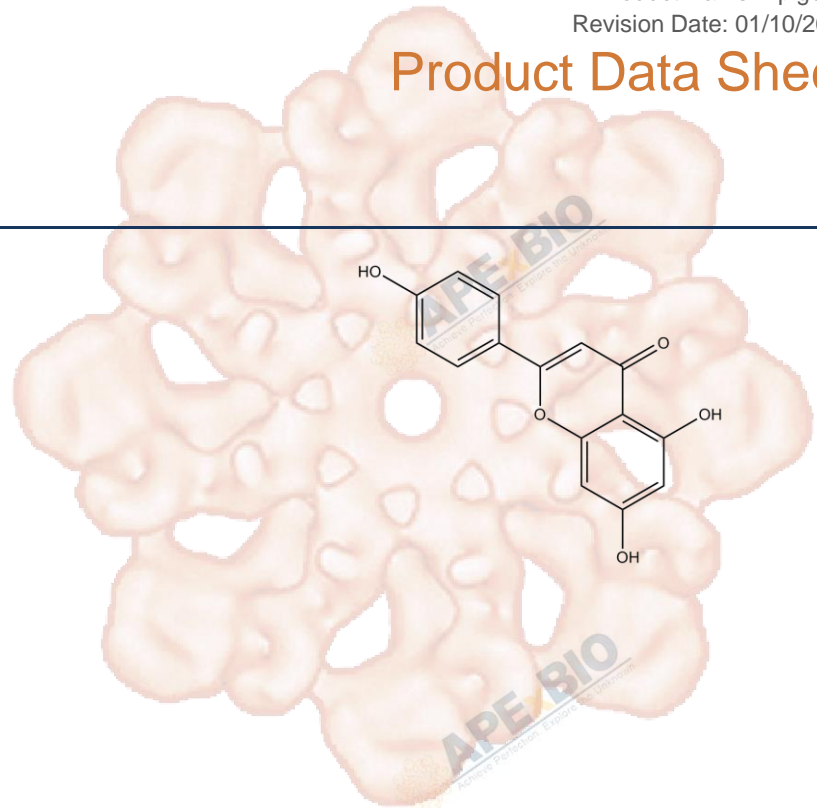


Product Data Sheet

Apigenin

Cat. No.:	N1828
CAS No.:	520-36-5
Formula:	C ₁₅ H ₁₀ O ₅
M.Wt:	270.24
Synonyms:	
Target:	Natural Products
Pathway:	
Storage:	Store at -20°C



Solvent & Solubility

insoluble in EtOH; insoluble in H₂O; ≥9.8 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass	1mg	5mg	10mg
		Concentration			
		1 mM	3.7004 mL	18.5021 mL	37.0041 mL
		5 mM	0.7401 mL	3.7004 mL	7.4008 mL
		10 mM	0.3700 mL	1.8502 mL	3.7004 mL

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

Biological Activity

Shortsummary

Antioxidant plant flavanoid

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	Malignant mesothelioma (MM) cell lines
Preparation method:	The solubility of this compound in DMSO is > 9.8 mg/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:	6.25 ~ 100 μM; 24, 48 and 72 hrs

	Applications:	In all MM cell lines, Apigenin inhibited cell growth in dose- and time- dependent manners. The IC50 values of Apigenin were $49.16 \pm 2.52 \mu\text{M}$, $46.95 \pm 1.69 \mu\text{M}$ and $34.31 \pm 1.55 \mu\text{M}$ for MM-B1, MM-F1, and H-Meso-1 cells after 72 hrs, respectively. Moreover, Apigenin significantly induced reactive oxygen species (ROS) production as well as DNA damage.
In Vivo	Animal experiment	
	Animal models:	C57BL/6 mice bearing MM #40a Cells
	Dosage form:	20 mg/kg; i.p.; weekly
	Applications:	After 2 weeks of treatment, Apigenin significantly lowered the abdominal circumference with a mean value of 6.9 cm. In C57BL/6 mice bearing MM #40a Cells, Apigenin treatment also prolonged the median survival time when compared with the vehicle treatment (12 vs. 5.5 weeks).
	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.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Masuelli L, Benvenuto M, Mattera R, Di Stefano E, Zago E, Taffera G, Tresoldi I, Giganti MG, Frajese GV, Berardi G, Modesti A, Bei R. In Vitro and In Vivo Anti-tumoral Effects of the Flavonoid Apigenin in Malignant Mesothelioma. Front Pharmacol. 2017 Jun 19;8:373.

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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