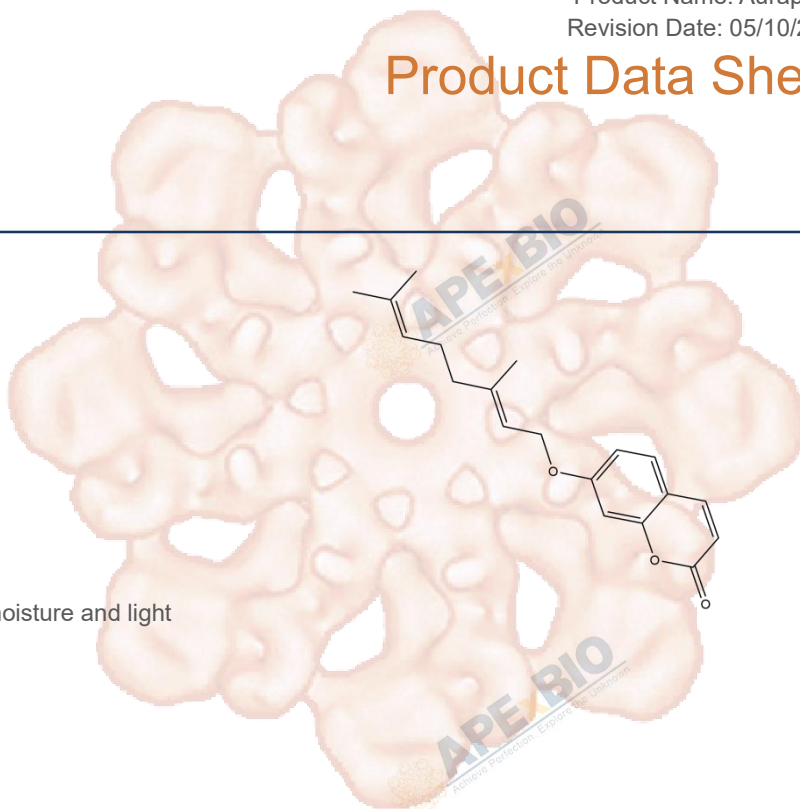


Product Data Sheet

Auraptene

Cat. No.:	C8648
CAS No.:	495-02-3
Formula:	C19H22O3
M.Wt:	298.38
Synonyms:	7-geranyloxycoumarin
Target:	MMP-2
Pathway:	DNA Damage
Storage:	Store at -20° C away from moisture and light for 3 years.



Solvent & Solubility

Soluble in DMSO

In Vitro

Preparing Stock Solutions	Mass		1mg	5mg	10mg
	Solvent	Concentration			
	1 mM	3.3514 mL	16.7572 mL	33.5143 mL	
	5 mM	0.6703 mL	3.3514 mL	6.7029 mL	
	10 mM	0.3351 mL	1.6757 mL	3.3514 mL	

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

Biological Activity

Shortsummary

Auraptene (CAS No. 495-02-3) is a naturally occurring geranyloxycoumarin compound commonly found in plants of the Rutaceae family. It is orally bioavailable and exhibits a broad spectrum of biological activities, including anti-inflammatory, antibacterial, antipathogenic, antioxidant, antitumor, and neuroprotective effects. Auraptene has shown therapeutic potential in various chronic diseases, particularly in the treatment and prevention of hypertension and cystic fibrosis.

 IC₅₀ & Target

Cell Viability Assay

In Vitro

Cell Line:	Oral epithelial cell line GSMK-K
Preparation method:	Cell Viability Assay

In Vivo	Reacting conditions:	0-20 μ M, 2 h
	Applications:	Did not affect the survival rate of epithelial cells.
	Animal experiment	
	Animal models:	Mammary carcinogenesis model in female Sprague Dawley rats
	Dosage form:	200, 500 ppm
	Applications:	Delayed median time to tumor by 39 days and reduced Insulin like Growth Factor-1 (IGF-1, 10 ng/mL)-induced cyclin D1 expression by 40% in MCF-7 cells.
	Preparation method:	Oral gavage (p.o.); mixed in the diet
	Other notes:	The technical data provided above is for reference only.

Product Citations

See more customer validations on www.apexbt.com.

References

1. La VD, et al. Anti-inflammatory and wound healing potential of citrus auraptene. J Med Food. 2013 Oct;16(10):961-4.
2. Krishnan P, et al. Citrus auraptene suppresses cyclin D1 and significantly delays N-methyl nitrosourea induced mammary carcinogenesis in female Sprague-Dawley rats. BMC Cancer. 2009 Jul 29;9:259.

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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