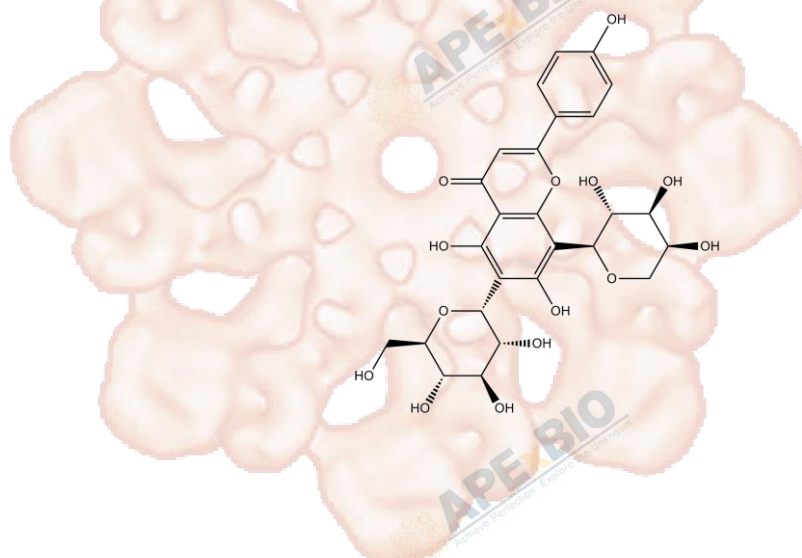


Product Data Sheet

Schaftoside

Cat. No.:	N2082
CAS No.:	51938-32-0
Formula:	C ₂₆ H ₂₈ O ₁₄
M.Wt:	564.49
Synonyms:	
Target:	Natural Products
Pathway:	
Storage:	Store at -20°C



Solvent & Solubility

≥50 mg/mL in DMSO; ≥50 mg/mL in MeOH; ≥52.8 mg/mL in H₂O; ≥9.76 mg/mL in EtOH with ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	1.7715 mL	8.8576 mL	17.7151 mL
	5 mM	0.3543 mL	1.7715 mL	3.5430 mL
	10 mM	0.1772 mL	0.8858 mL	1.7715 mL

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

Biological Activity

Shortsummary

Nature Products

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	M. incognita, A. erubescens
Preparation method:	The solubility of this compound in DMSO is >16.3mg/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:	72 h

	Applications:	Schaftoside possessed strong nematocidal activity against <i>M. incognita</i> with the LC50 of 114.66 µg/mL. Schaftoside showed strong nematocidal activity against the crude extract of <i>A. erubescens</i> and exhibited nematocidal activity against the root-knot nematode with a LC50 value of 258.11 µg/mL.
In Vivo	Animal experiment	
	Applications:	
	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]. Du, Shu Shan, et al. "Nematocidal flavone-C-glycosides against the root-knot nematode (*Meloidogyne incognita*) from *Arisaema erubescens* tubers." *Molecules* 16.6 (2011): 5079-5086.

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. Short-term 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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