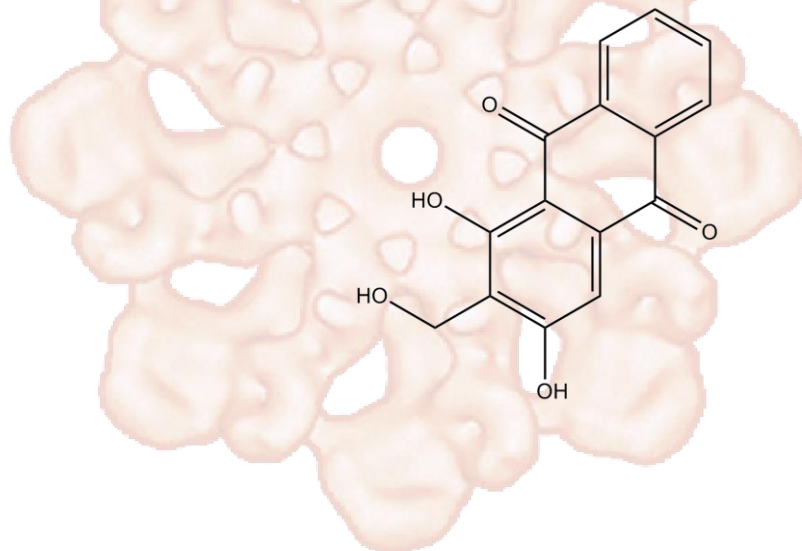


# Product Data Sheet

## Lucidin

<b>Cat. No.:</b>	A3562
<b>CAS No.:</b>	478-08-0
<b>Formula:</b>	C <sub>15</sub> H <sub>10</sub> O <sub>5</sub>
<b>M.Wt:</b>	270.24
<b>Synonyms:</b>	Henine; NSC 30546
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

Soluble in DMSO

In Vitro

Preparing Stock Solutions	Mass		1mg	5mg	10mg
	Solvent	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

Natural component of Rubia tinctorum L

 IC<sub>50</sub> & Target

In Vitro

### Cell Viability Assay

Cell Line:	PANC-1 cells
Preparation method:	The solubility of this compound in DMSO is >10 mM. 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:	PC50: 54.7 μM, 24 hours
Applications:	After 24 h of incubation, the cells were washed with PBS, and 100 μL of DMEM

		containing 10% WST-8 cell counting kit solution was added to the wells. After 3 h of incubation, the absorbance was measured at 450 nm. The preferential cytotoxicity was expressed as the concentration at which 50% of cells died preferentially. The PC50 value of lucidin was 54.7 $\mu$ M in this experiment.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Male Parkes mice
	Dosage form:	Oral administration, 2 mg/day
	Applications:	Mice were treated orally with lucidin for 4 days. <sup>32</sup> P-Postlabelling analysis of hepatic DNA from mice treated with lucidin showed three lucidin-caused radioactive spots not present in the chromatograms of DNA from the control animals. The adduct levels calculated from individual animals were 1.16 $\pm$ 0.2 total adducts/108 nucleotides.
	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](http://www.apexbt.com).

## References

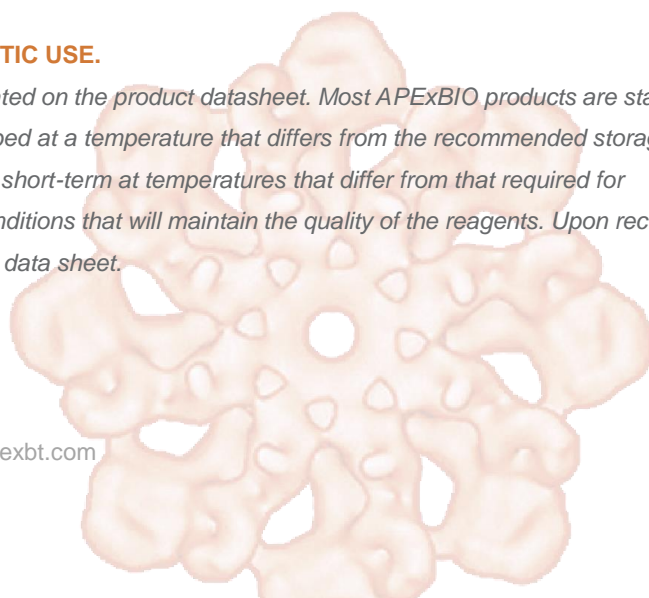
- [1] Dibwe D F, Awale S, Kadota S, et al. Damnacanthol from the Congolese Medicinal Plant *Garcinia huillensis* has a Potent Preferential Cytotoxicity against Human Pancreatic Cancer PANC-1 Cells. *Phytotherapy Research*, 2012, 26(12): 1920-1926.
- [2] Poginsky B, Westendorf J, Blömeke B, et al. Evaluation of DNA-binding activity of hydroxyanthraquinones occurring in *Rubia tinctorum* L. *Carcinogenesis*, 1991, 12(7): 1265-1271.

## 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 APEX<sup>BIO</sup> 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.*



**APExBIO Technology**

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