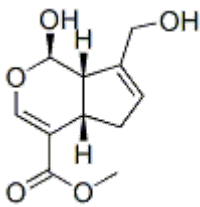


# Genipin

Catalog No. A11677



Genipin is a chemical compound found in gardenia fruit extract. Genipin is an excellent natural cross-linker for proteins, collagen, gelatin, and chitosan cross-linking. Furthermore, genipin can be used as a regulating agent for drug delivery, as the raw material for gardenia blue pigment preparation, and as the intermediate for alkaloid syntheses. In vitro experiments have shown that genipin blocks the action of the enzyme uncoupling protein 2.

## Technical details

CATALOG NUM	A11677
M. WT	226.23
FORMULA	C11H14O5
PURITY	>98%
STORAGE	at -20 °C 3 years (powder form); at -20 °C 6 months (Solution base)
CAS NO.	6902-77-8
SYNONYMS	
SMILES	COC(=O)C1=CO[C@H]([C@H]2[C@@H]1CC=C2CO)O

## Biological Activity

Genipin is a chemical compound found in gardenia fruit extract. Genipin is an excellent natural cross-linker for proteins, collagen, gelatin, and chitosan cross-linking. Furthermore, genipin can be used as a regulating agent for drug delivery, as the raw material for gardenia blue pigment preparation, and as the intermediate for alkaloid syntheses. In vitro experiments have shown that genipin blocks the action of the enzyme uncoupling protein 2.

### Targets


## Solubility \*



In vitro (25°C)	DMSO	42 mg/mL (185.65 mM)
	Water	Insoluble
	Ethanol	42 mg/mL (185.65 mM)
In vivo	5% DMSO+30% PEG 300+ddH2O	19 mg/mL

\* <1 mg/ml means slightly soluble or insoluble.

\* Please note that Adooq tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.

## Preparing Stock Solutions



Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
0.1 mM	44.2 mL	221.01 mL	442.03 mL
0.5 mM	8.84 mL	44.2 mL	88.41 mL
1 mM	4.42 mL	22.1 mL	44.2 mL
5 mM	0.88 mL	4.42 mL	8.84 mL

\*The above data is based on the product molecular weight 226.23. Batch specific molecular weights may vary from batch to batch due to solvent of hydration, which will affect the solvent volumes required to prepare stock solutions.

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## Contact information

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