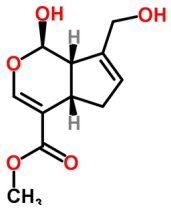

Genipin is an aglycone derived from an iridoid glycoside called geniposide present in fruit of Gardenia jasmindides Ellis.

Genipin is an excellent natural cross-linker for proteins, collagen, gelatin, and chitosan cross-linking.

It has a low acute toxicity, with LD50 i.v. 382 mg/kg in mice, therefore, much less toxic than glutaraldehyde and many other commonly used synthetic cross-linking regents. It is also used for pharmaceutical purposes, such as choleretic action for liver diseases control.

Genipin is available for small and large scale production.

Order online

Product ID				
	ST080860			
IUPAC name	Methyl (	*1R,2R,6S*	)-2-hydroxy-9-(hydroxymeth	
Identifiers				
CAS number	[6902-77-8]			
PubChem	442424			
SMILES	COC(=O)C1=CO[C@H]([C@H]2[C@@H]1CC=C2CO)O			
Properties				
Molecular formula	C	11	H	14
Molar mass	226.226 g/mol			

Hydrogen Bonds Donors	2
Hydrogen Bonds Acceptors	5
Rotatable Bonds	3
Polar Surface Area	76
XLogP	-0.8
Exact Mass	226.084
MonoIsotopic Mass	226.084
Charge	0
Complexity	35

Genipin Specification

	Specification	Results
Appearance:	white crystal powder	
Purity:	98% up by HPLC method	98.2%
Solubilities:	soluble in Ethanol, Methanol, Acetone, slightly soluble in water	
Total plate count:	below 1000 CFU/g	300 CFU/g
E. coli:	Negative	Negative
Salmonella:	Negative	Negative
Storage:	Room temperature	

Notice: It can be dissolved in Ethanol first, then diluted to suitable concentration with buffer solution.