



Genipin is an aglycone derived from an iridoid glycoside called geniposide present in fruit of *Gardenia jasminoides* 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 reagents. It is also used for pharmaceutical purposes, such as choleric action for liver diseases control.

Genipin is available for small and large scale production.



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Product ID	ST080860		
IUPAC name	Methyl (1 <i>R</i> ,2 <i>R</i> ,6 <i>S</i>)-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.