

## Esculentoside B

## Chemical Properties

CAS No.:	60820-94-2
Formula:	C <sub>36</sub> H <sub>56</sub> O <sub>11</sub>
Molecular Weight:	664.82
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Phytolaccoside B(Esculentoside B) is an antifungal monodesmoside triterpenoid glycoside, it has potent inhibitory activity against agrobacterial plant transformation.
Targets(IC <sub>50</sub> )	Antifection: None
In vitro	The newly established GUS expression bioassay on the callus extracts of 22 species of plants revealed that the methanol extract of Phytolacca americana callus had the most potent inhibitory activity against agrobacterial plant transformation. METHODS AND RESULTS: A triterpene glycoside phytolaccoside B was isolated from the extract as a genuine plant transformation inhibitor having neither antiagrobacterial nor phytotoxic activity. This compound is promising for use as a biochemical probe for studies on the plant transformation mechanism.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.504 mL	7.521 mL	15.042 mL
5 mM	0.301 mL	1.504 mL	3.008 mL
10 mM	0.150 mL	0.752 mL	1.504 mL
50 mM	0.030 mL	0.150 mL	0.301 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Inhibition of Plant Transformation by Phytolaccoside B from Phytolacca americana Callus. Biosci Biotechnol Biochem. 1999;63(9):1657-9.

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