

## Product Data Sheet

Product Name: Digitonin

Cat. No.: GC32854

### Chemical Properties

Cas No. 11024-24-1

Chemical Name N/A

Canonical SMILES C[C@@]12[C@]([C@@H]3C)([H])[C@](O[C@]34CC[C@@H](C)CO4)([H])[C@@H](O)[C@@]1([H])[C@@](CC[C@]5([H])[C@@]6(C[C@@H](O)[C@H](O[C@]([C@@H]([C@@H](O)[C@H]7O[C@@](O[C@H](C)O)[C@@H](O)[C@@H]8O[C@@](OC[C@@H](O)[C@@H]9O)([H])[C@@H]9O)([H])[C@@H]8O[C@@](O[C@H](CO)[C@H

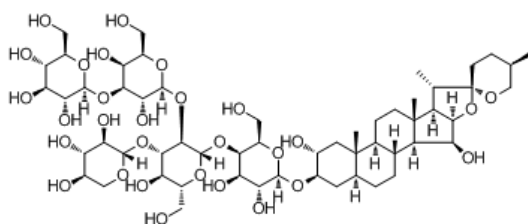
Formula C<sub>56</sub>H<sub>92</sub>O<sub>29</sub> M.Wt 1229.31

Solubility H<sub>2</sub>O : 50 mg/mL (40.67 mM; Need ultrasonic) Storage Store at 4°C, stored under nitrogen

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Background

Digitonin, a glycoside obtained from *Digitalis purpurea*, could increase cell permeability by binding to cholesterol molecules and reduce tumor growth.

Digitonin, a detergent that increases cell permeability by binding to cholesterol molecules in the cell membrane, can increase cisplatin accumulation and reduce tumour growth in vitro[1].

In the liver parenchyma the concentrations are of the same magnitude. Measured with the <sup>133</sup>Xe-clearance technique, Digitonin does not alter the tumor blood flow. Digitonin enhances the tumor-growth retarding effect of CBDCA given intra-arterially at 5 mg/kg but not at 25 mg/kg[1].

Reference:

[1]. Lindnér PG, et al. Digitonin enhances the efficacy of carboplatin in liver tumour after intra-arterial administration. *Cancer Chemother Pharmacol.* 1997;40(5):444-8.

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