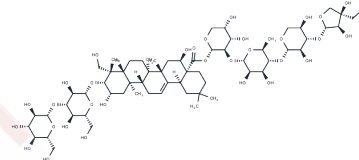


## Polygalacin D2

## Chemical Properties

CAS No. :	66663-92-1
Formula:	C <sub>63</sub> H <sub>102</sub> O <sub>32</sub>
Molecular Weight:	1371.477
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Polygalacin D2 may have antimicrobial activity.
In vitro	METHODS AND RESULTS: A novel triterpenoid saponin, deapioplatycoside E (1) was isolated from the root extract of <i>Platycodon grandiflorum</i> , together with the seven known saponins 2 - 8, i. e., platycoside E (2), deapioplatycodin D3 (3), platycodin D3 (4), Polygalacin D2 (5), platycodin D2 (6), deapioplatycodin D (7) and platycodin D (8). The structure of the new saponin 1 was determined on the basis of spectral analysis and chemical evidence. CONCLUSIONS: The crude saponin fraction (ED <sub>50</sub> : ca. 10 - 15 microg/mL) and compounds 6 - 8 (ED <sub>50</sub> : ca. 4 - 18 microg/mL) exhibited significant inhibition on the proliferation of five kinds of cultured human tumor cell lines, i. e., A549 (non-small cell lung), SK-OV-3 (ovary), SK-MEL-2 (melanoma), XF498 (central nerve system) and HCT-15 (colon), in vitro.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7291 mL	3.6457 mL	7.2914 mL
5 mM	0.1458 mL	0.7291 mL	1.4583 mL
10 mM	0.0729 mL	0.3646 mL	0.7291 mL
50 mM	0.0146 mL	0.0729 mL	0.1458 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Isolation of a new saponin and cytotoxic effect of saponins from the root of *Platycodon grandiflorum* on human tumor cell lines. *Planta Medica*, 2005, 71(6):566-568.

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