

## Bruceine E

## Chemical Properties

CAS No.:	21586-90-3
Formula:	C <sub>20</sub> H <sub>28</sub> O <sub>9</sub>
Molecular Weight:	412.44
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Bruceine E exhibits significant blood glucose concentration reduction activity, it might act as an insulin secretagogue.
Targets(IC <sub>50</sub> )	others: None
In vitro	The structure of 1 was elucidated on the basis of 1D- and 2D-NMR spectroscopic analyses. Their inhibitory effects on tumor cells were also tested. Compound 1 was slightly active against HL-60, SMMC-7721, A-549, and MCF-7 tumor cells. Compounds 2 and 3 demonstrated significant inhibitory activities against all tested cells.

## 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	2.425 mL	12.123 mL	24.246 mL
5 mM	0.485 mL	2.425 mL	4.849 mL
10 mM	0.242 mL	1.212 mL	2.425 mL
50 mM	0.048 mL	0.242 mL	0.485 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. One new pregnane glycoside from the seeds of cultivated *Brucea javanica*. Arch Pharm Res. 2011 Aug;34(8):1297-300.

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