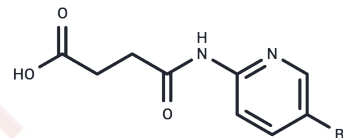


Bikinin

Chemical Properties

CAS No. :	188011-69-0
Formula:	C ₉ H ₉ BrN ₂ O ₃
Molecular Weight:	273.08
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	Bikinin (Abrasin), a potent inhibitor of plant GSK-3/Shaggy-like kinase, activates BR signaling downstream of the BR receptor.
Targets(IC50)	GSK-3
In vitro	Bikinin directly inhibited BIN2 in Arabidopsis GSK-3s and activated oleuropein steroid-dependent gene expression. Bikinin also inhibited RD26 expression and, in the case of RD26pro:GUS, NaCl (150 mM)-induced GUS activity.
In vivo	Bikinin directly inhibited BIN2 in Arabidopsis GSK-3s and activated oleuropein steroid-dependent gene expression. Bikinin also inhibited RD26 expression and, in the case of RD26pro:GUS, NaCl (150 mM)-induced GUS activity.

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 100 mg/mL (366.19 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.32 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6619 mL	18.3097 mL	36.6193 mL
5 mM	0.7324 mL	3.6619 mL	7.3239 mL
10 mM	0.3662 mL	1.831 mL	3.6619 mL
50 mM	0.0732 mL	0.3662 mL	0.7324 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

De Rybel B, et al. Chem Biol. 2009, 16(6), 594-604.

Cai Z, et al. Proc Natl Acad Sci U S A. 2014, 111(26), 9651-9656.

Chung Y, et al. Mol Cells. 2014, 37(11), 795-803.

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