

Lepidimoide

Chemical Properties

CAS No. :	145039-76-5
Formula:	C ₁₂ H ₁₈ NaO ₁₀
Molecular Weight:	345.256
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	Lepidimoide is an allelopathic substance extracted from germinated cress (<i>Lepidium sativum</i>) seeds.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8964 mL	14.4818 mL	28.9637 mL
5 mM	0.5793 mL	2.8964 mL	5.7927 mL
10 mM	0.2896 mL	1.4482 mL	2.8964 mL
50 mM	0.0579 mL	0.2896 mL	0.5793 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

- Hirose K, Endo K, Hasegawa K. A convenient synthesis of lepidimoide from okra mucilage and its growth-promoting activity in hypocotyls. *Carbohydr Res.* 2004 Jan 2;339(1):9-19. PubMed PMID: 14659666.
- Tanaka M, Yoshimura M, Suto M, Yokota A, Asano K, Sukara E, Tomita F. Production of lepidimoide by an endophytic fungus from polysaccharide extracted from *Abelmoschus* sp.: identification of the product and the organism producing it. *J Biosci Bioeng.* 2002;93(6):531-6. PubMed PMID: 16233245.
- Yamada K, Anai T, Kosemura S, Yamamura S, Hasegawa K. Structure-activity relationship of lepidimoide and its analogues. *Phytochemistry.* 1996 Feb;41(3):671-3. PubMed PMID: 8835453.
- Yamada K, Matsumoto H, Ishizuka K, Miyamoto K, Kosemura S, Yamamura S, Hasegawa K. Lepidimoide Promotes Light-Induced Chlorophyll Accumulation in Cotyledons of Sunflower Seedlings. *J Plant Growth Regul.* 1998 Dec;17(4):215-219. PubMed PMID: 9892744.

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