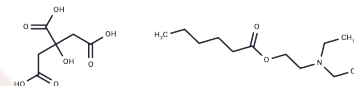


Diethyl aminoethyl hexanoate citrate

Chemical Properties

CAS No. :	220439-24-7
Formula:	C ₁₈ H ₃₃ N ₂ O ₉
Molecular Weight:	407.46
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Diethyl aminoethyl hexanoate citrate (2-Diethylaminoethyl hexanoate citrate) is a compound that is widely used as a plant growth regulator stimulates the regeneration of adventitious buds.
Targets(IC50)	Others
In vitro	Diethyl aminoethyl hexanoate citrate absorbs UV-A radiation and its peak is at 354 nm. At 25 °C, the molar absorption coefficient of Diethyl aminoethyl hexanoate citrate in EtOH is 39 000 mol/dm ³ /cm.

Solubility Information

Solubility	DMSO: 112.5 mg/mL (276.1 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4542 mL	12.2711 mL	24.5423 mL
5 mM	0.4908 mL	2.4542 mL	4.9085 mL
10 mM	0.2454 mL	1.2271 mL	2.4542 mL
50 mM	0.0491 mL	0.2454 mL	0.4908 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.

Reference

Chen XL, et al. An uncommon plant growth regulator, diethyl aminoethyl hexanoate, is highly effective in tissue cultures of the important medicinal plant purple coneflower (*Echinacea purpurea* L.). *Biomed Res Int.* 2013;2013: 540316.

He S, et al. Synergetic effects of DA-6/GA₃ with EDTA on plant growth, extraction and detoxification of Cd by *Lolium perenne*. *Chemosphere.* 2014 Dec;117:132-8.

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