

Prohexadione calcium

Chemical Properties

CAS No. :	127277-53-6
Formula:	C ₁₀ H ₁₁ O ₅ .1/2Ca.1/2Ca
Molecular Weight:	251.27
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	Prohexadione calcium (BX-112) is a plant growth regulator that inhibits gibberellin biosynthesis in plants [1] [2].
Targets(IC50)	Others
In vitro	Prohexadione calcium at a concentration of 1 mM impedes JMJD2A demethylase activity [2], while levels of 1-2 mM prompt the transformation of mouse neurospheres into neurons [2]. When applied as a foliar spray at 100 mg/L, it mitigates saline-alkali stress in soybean seedlings [3], and further induces structural defenses against fire blight in potted apple trees [4].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9798 mL	19.8989 mL	39.7978 mL
5 mM	0.796 mL	3.9798 mL	7.9596 mL
10 mM	0.398 mL	1.9899 mL	3.9798 mL
50 mM	0.0796 mL	0.398 mL	0.796 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.

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