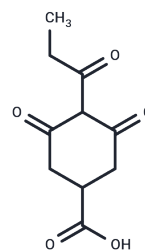


Prohexadione

Chemical Properties

CAS No. :	88805-35-0
Formula:	C ₁₀ H ₁₂ O ₅
Molecular Weight:	212.2
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 is a plant growth regulator. It inhibits the gibberellin plant hormone biosynthesis enzyme 3β-hydroxylase when used at concentrations of 0.1, 1, and 10 mM. It reduces the shoot length of peanut plants when applied at 0.5, 1.5, and 4.5 kg/hectare. Prohexadione also inhibits jumonji domain-containing 2A (JMJD2A) demethylase when used at a concentration of 1 mM and induces the differentiation of mouse neurospheres into neurons at 1, 1.5, and 2 mM. Formulations containing prohexadione have been used as plant growth regulators in agriculture.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.7125 mL	23.5627 mL	47.1254 mL
5 mM	0.9425 mL	4.7125 mL	9.4251 mL
10 mM	0.4713 mL	2.3563 mL	4.7125 mL
50 mM	0.0943 mL	0.4713 mL	0.9425 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481