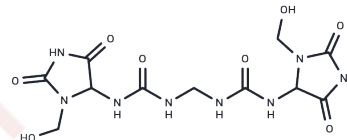


Imidazolidinyl urea

Chemical Properties

CAS No. :	39236-46-9
Formula:	C ₁₁ H ₁₆ N ₈ O ₈
Molecular Weight:	388.29
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	Imidazolidinyl urea (Imidurea) is an antimicrobial preservative used in cosmetics.
Targets(IC50)	Antibacterial,Antibiotic,Interleukin,MRGPR

Solubility Information

Solubility	DMSO: 250 mg/mL (643.85 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 (5.15 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (25.75 mM),Solution. <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	2.5754 mL	12.877 mL	25.7539 mL
5 mM	0.5151 mL	2.5754 mL	5.1508 mL
10 mM	0.2575 mL	1.2877 mL	2.5754 mL
50 mM	0.0515 mL	0.2575 mL	0.5151 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

Lehmann SV, et al. Contact Dermatitis, 2006, 54 (1): 50-58.

TPCA-1 compound, inhibiting testis-specific serine/threonine protein kinase 3 for potential male sterile in Bombyx mori

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