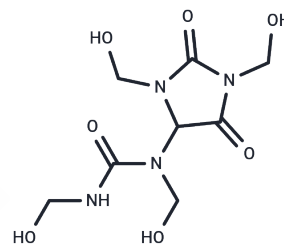


Diazolidinyl urea

Chemical Properties

CAS No. :	78491-02-8
Formula:	C ₈ H ₁₄ N ₄ O ₇
Molecular Weight:	278.22
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Diazolidinyl urea (Germall II) is a formaldehyde-releasing preservative used in cosmetics and personal-care products,
Targets(IC50)	Antibacterial

Solubility Information

Solubility	DMSO: 250 mg/mL (898.57 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: 4 mg/mL (14.38 mM),Sonication is recommended. <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	3.5943 mL	17.9714 mL	35.9428 mL
5 mM	0.7189 mL	3.5943 mL	7.1886 mL
10 mM	0.3594 mL	1.7971 mL	3.5943 mL
50 mM	0.0719 mL	0.3594 mL	0.7189 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

Hectorne K J , Fransway A F . Diazolidinyl urea: Incidence of sensitivity, patterns of cross-reactivity and clinical relevance[J]. Contact Dermatitis, 1994, 30(1):16-19.

Doi T , Kajimura K , Taguchi S . The different decomposition properties of diazolidinyl urea in cosmetics and patch test materials[J]. contact dermatitis, 2011, 65(2):81-91.

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