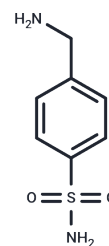


Mafenide

Chemical Properties

CAS No. :	138-39-6
Formula:	C7H10N2O2S
Molecular Weight:	186.23
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	Mafenide, a sulfonamide, inhibits the enzyme carbonic anhydrase and is used as a topical anti-infective drug, especially in burn therapy.
Targets(IC50)	Others, Antibacterial, Antibiotic

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.3697 mL	26.8485 mL	53.697 mL
5 mM	1.0739 mL	5.3697 mL	10.7394 mL
10 mM	0.537 mL	2.6849 mL	5.3697 mL
50 mM	0.1074 mL	0.537 mL	1.0739 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

Kahn SA, Afshari A, Nguyen L, Shinha T, Huff T, Montgomery AC, Stratton C, Summitt B. Hydrofiber Dressing Saturated With Mafenide Acetate Extends the Duration of Antimicrobial Activity. *J Burn Care Res.* 2017 Jul/Aug;38(4):e704-e707. doi: 10.1097/BCR.0000000000000455. PubMed PMID: 27775984.

Afshari A, Nguyen L, Kahn SA, Summitt B. 2.5% Mafenide Acetate: A Cost-Effective Alternative to the 5% Solution for Burn Wounds. *J Burn Care Res.* 2017 Jan/Feb;38(1):e42-e47. doi: 10.1097/BCR.0000000000000425. PubMed PMID: 27606553.

Pickus EJ, Lionelli GT, Charles EW 3rd, Korentager RA. Mafenide acetate allergy presenting as recurrent chondritis. *Ann Plast Surg.* 2002 Feb;48(2):202-4. PubMed PMID: 11910229.

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