

## Mafenide acetate

## Chemical Properties

CAS No.:	138-39-6
Formula:	C <sub>7</sub> H <sub>10</sub> N <sub>2</sub> O <sub>2</sub> S
Molecular Weight:	186.23
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Mafenide acetate, a sulfonamide, inhibits the enzyme carbonic anhydrase and is used as a topical anti-infective drug, especially in burn therapy.
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## 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	5.370 mL	26.849 mL	53.697 mL
5 mM	1.074 mL	5.370 mL	10.739 mL
10 mM	0.537 mL	2.685 mL	5.370 mL
50 mM	0.107 mL	0.537 mL	1.074 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. 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.
2. 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.
3. 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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