Proteins

Mafenide Acetate

Cat. No.: HY-B0614A CAS No.: 13009-99-9 Molecular Formula: $C_9H_{14}N_2O_4S$

Molecular Weight: 246.28

Target: Bacterial; Antibiotic Pathway: Anti-infection

4°C, sealed storage, away from moisture Storage:

* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (406.04 mM; Need ultrasonic)

 $H_2O : \ge 100 \text{ mg/mL} (406.04 \text{ mM})$

* "≥" means soluble, but saturation unknown.

| | Solvent Mass Concentration | 1 mg | 5 mg | 10 mg |
|------------------------------|-------------------------------|-----------|------------|------------|
| Preparing Stock Solutions | 1 mM | 4.0604 mL | 20.3021 mL | 40.6042 mL |
| ototi. ootations | 5 mM | 0.8121 mL | 4.0604 mL | 8.1208 mL |
| | 10 mM | 0.4060 mL | 2.0302 mL | 4.0604 mL |

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: PBS Solubility: 70 mg/mL (284.23 mM); Clear solution; Need ultrasonic
- 2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (10.15 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.15 mM); Clear solution
- 4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.15 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Mafenide Acetate is an effective sulfonamide-type antimicrobial agent used for burn wounds. Mafenide Acetate shows activity against both Gram-positive and Gram-negative organisms, including Pseudomonas aeruginosa, via inhibition of nucleotide synthesis^{[1][2]}.

| | | te After Reconstitution. J Burn Care Res. 2018 | |
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| | | nedical applications. For research use or | |
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REFERENCES

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