

Product Data Sheet

Product Name: Mafenide hydrochloride

Cat. No.: GC36529

Chemical Properties

Cas. No. 138-37-4

SMILES O=S(C1=CC=C(CN)C=C1)(N)=O.[H]Cl

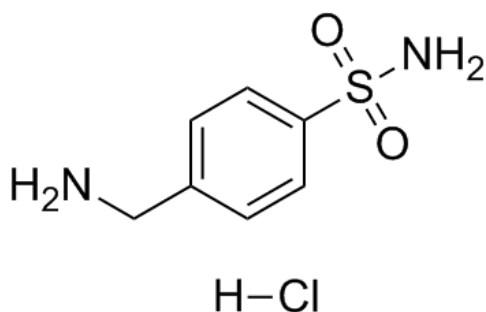
Formula C7H11ClN2O2S M.Wt 222.69

Solubility DMSO : 44 mg/mL (197.58 mM) ; Storage Store at -20°C
Water:44 mg/mL (197.58 mM);
Ethanol:8 mg/mL (35.92 mM)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Mafenide hydrochloride is a sulfonamide-type medication used as an antibiotic. Target: Antibacterial. Mafenide is a sulfonamide-type medication. Mafenide works by reducing the bacterial population present in the avascular tissues of burns and permits spontaneous healing of deep partial-thickness burns. It is used to treat severe burns. It is used topically as an adjunctive therapy for second- and third-degree burns. It is bacteriostatic against many gram-positive and gram-negative

Caution: Product has not been fully validated for medical applications. For research use only.

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organisms, including *Pseudomonas aeruginosa*. Some sources state that mafenide is more appropriate for non-facial burns, while chloramphenicol/prednisolone or bacitracin are more appropriate for facial burns [1-3].

[1]. Siuda, J.F. and C.D. Cihonski, New compounds: carbamate derivatives of mafenide (homosulfanilamide). *J Pharm Sci*, 1972. 61(11): p. 1856-7. [2]. Haynes, B.W., Jr., Mafenide acetate in burn treatment. *N Engl J Med*, 1971. 284(23): p. 1324. [3]. Haik, J., et al., Burn care standards in Israel: lack of consensus. *Burns*, 2005. 31(7): p. 845-9.

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