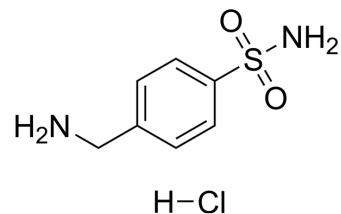


Mafenide hydrochloride

Cat. No.:	HY-B0614B
CAS No.:	138-37-4
Molecular Formula:	C ₇ H ₁₁ ClN ₂ O ₂ S
Molecular Weight:	222.69
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (561.32 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.4905 mL	22.4527 mL	44.9055 mL
	5 mM	0.8981 mL	4.4905 mL	8.9811 mL
	10 mM	0.4491 mL	2.2453 mL	4.4905 mL

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

BIOLOGICAL ACTIVITY

Description

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

REFERENCES

[1]. Haynes, B.W., Jr., Mafenide acetate in burn treatment. N Engl J Med, 1971. 284(23): p. 1324.

[2]. Ashkan Afshari, et al. The Effective Duration of Antimicrobial Activity of Mafenide Acetate After Reconstitution. J Burn Care Res. 2018 Aug 17;39(5):736-738.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA