Temocillin disodium

Cat. No.:	HY-139597
CAS No.:	61545-06-0
Molecular Formula:	$C_{16}H_{16}N_2Na_2O_7S_2$
Molecular Weight:	458.42
Target:	Bacterial
Pathway:	Anti-infection
Storage:	-20°C, stored under nitrogen, away from moisture
	* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)
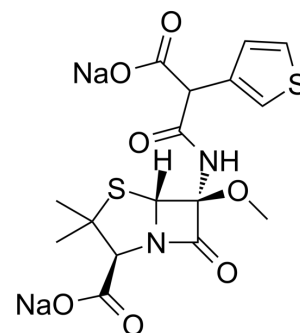
SOLVENT & SOLUBILITY

In Vitro	H_2O : 250 mg/mL (545.35 mM; Need ultrasonic)			
	Preparing Stock Solutions	**Solvent Mass / Concentration**	**1 mg**	**5 mg**	**10 mg**
		1 mM	2.1814 mL	10.9070 mL	21.8141 mL
		5 mM	0.4363 mL	2.1814 mL	4.3628 mL
		10 mM	0.2181 mL	1.0907 mL	2.1814 mL
	Please refer to the solubility information to select the appropriate solvent.			
In Vivo	1. Add each solvent one by one: PBS Solubility: 50 mg/mL (109.07 mM); Clear solution; Need ultrasonic			

BIOLOGICAL ACTIVITY

Description	Temocillin disodium, a 6-α-methoxy penicillin, possesses antibacterial activity[1].
In Vivo	Temocillin dosing regimens of 200 mg/kg every 4 and 6 h remained significantly effective in reducing bacterial titres in kidneys against the two strains, with no significant difference between the parental strain and its transconjugant[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. K Jules, et al. Antibacterial activity and beta-lactamase stability of temocillin. Antimicrob Agents Chemother. 1982 Sep;22(3):453-60.

[2]. J F Soubirou, et al. Activity of temocillin in a murine model of urinary tract infection due to Escherichia coli producing or not producing the ESBL CTX-M-15. J

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