Product Data Sheet

(2S,5R,6R)-Ticarcillin disodium

Cat. No.: HY-B1175 **CAS No.:** 4697-14-7

Molecular Formula: $C_{15}H_{14}N_2Na_2O_6S_2$

Molecular Weight: 428.39

Target: Bacterial; Antibiotic
Pathway: Anti-infection

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

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

and light)

SOLVENT & SOLUBILITY

In Vitro DMSO: 125 mg/mL (291.79 mM; Need ultrasonic)

 $H_2O : \ge 100 \text{ mg/mL} (233.43 \text{ mM})$

* "≥" means soluble, but saturation unknown.

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.3343 mL	11.6716 mL	23.3432 mL
	5 mM	0.4669 mL	2.3343 mL	4.6686 mL
	10 mM	0.2334 mL	1.1672 mL	2.3343 mL

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

In Vivo

- Add each solvent one by one: PBS Solubility: 100 mg/mL (233.43 mM); Clear solution; Need ultrasonic
- 2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline

Solubility: ≥ 2.08 mg/mL (4.86 mM); Clear solution

- 3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.86 mM); Clear solution
- 4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.86 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(2S,5R,6R)-Ticarcillin disodium is an injectable antibiotic for the treatment of Gram-negative bacteria, particularly Pseudomonas aeruginosa. It is also one of the few antibiotics capable of treating Stenotrophomonas maltophilia infections.

REFERENCES				
[1]. Spierer O, et al. Comparativisolates. Br J Ophthalmol. 2018		s against Pseudomonas aeruginos	sa, Achromobacter xylosoxidans and S	tenotrophomonas maltophilia keratitis
	Caution: Product has	not been fully validated for m	nedical applications. For research	use only.
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