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**Product Data Sheet**

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Product Name: Cephalothin

Cat. No.: GC11507

**Chemical Properties**

Cas. No. 153-61-7

Chemical Name (6R,7R)-3-(acetoxymethyl)-8-oxo-7-(2-(thiophen-2-yl)acetamido)-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid

SMILES O=C(C(N12)=C(COC(C)=O)CS[C@]2([H])[C@H](NC(CC3=CC=CS3)=O)C1=O)OFormula  $C_{16}H_{16}N_2O_6S_2$  M.Wt 396.44Solubility  $\geq 39.6\text{mg/mL}$  in DMSO Storage Store at  $-20^\circ\text{C}$ , protect from light, stored under nitrogenGeneral tips For obtaining a higher solubility, please warm the tube at  $37^\circ\text{C}$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^\circ\text{C}$  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**

Cephalothin sodium is a first generation cephem antibiotic with a wide range antibacterial activity, is active against gram-positive and gram-negative bacteria.

## References:

[1]. Dowarah R, et al. Selection and characterization of probiotic lactic acid bacteria and its impact on growth, nutrient digestibility, health and antioxidant status in weaned piglets. PLoS One. 2018 Mar 8;13(3):e0192978.

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

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