
Product Data Sheet

Product Name: Cefadroxil (hydrate)

Cat. No.: GC16253

Chemical Properties

Cas. No. 66592-87-8

Chemical Name (6R,7R)-7-[[[(2R)-2-amino-2-(4-hydroxyphenyl)acetyl]amino]-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, monohydrate

SMILES OC1=CC=C([C@@H](N)C(N[C@@H]2C(N3[C@]2([H])SCC(C)=C3C(O)=O)=O)=O)C=C1.O

Formula $C_{16}H_{17}N_3O_5S \cdot H_2O$ M.Wt 381.4

Solubility $\geq 5.8\text{mg/mL}$ in DMSO with gentle warming Storage Store at -20°C

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

Cefadroxil is a new semisynthetic cephalosporin with a broad antibacterial spectrum and a high chemotherapeutic potential [1].

In vitro: The inhibitory activity of this compound was similar to that of cephalixin and cephadrine when tested against 602 clinical isolates on Mueller-Hinton medium. In the oral treatment of experimental infections of mice, cefadroxil was more effective than cephalixin against *Streptococcus pyogenes*, and comparably effective against *Streptococcus pneumoniae*, *Staphylococcus aureus*, and several gram-negative species [1].

In vivo: In mice, oral administration of cefadroxil at doses ranging from 25 to 100 mg/kg attained peak concentrations in the blood. Higher peak levels were noted with cefadroxil than with cephalixin at a dose of 200 mg/kg [1].

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

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Clinical trials: A single daily dose of cefadroxil appeared to be as effective in the treatment of patients with A β -hemolytic streptococcal (GABHS) pharyngitis [2].

References:

[1] Buck R E, Price K E. Cefadroxil, a new broad-spectrum cephalosporin[J]. Antimicrobial agents and chemotherapy, 1977, 11(2): 324-330.

[2] Gerber M A, Randolph M F, Chanatry J, et al. Once daily therapy for streptococcal pharyngitis with cefadroxil[J]. The Journal of pediatrics, 1986, 109(3): 531-537.

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