

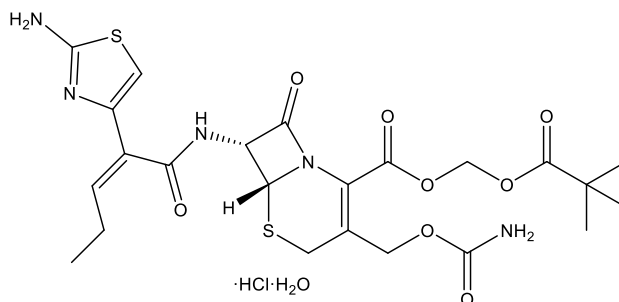
Catalog #10-3972

Cefcapene pivoxil

CAS# 147816-24-8

2,2-Dimethylpropanoyloxymethyl (6*R*,7*R*)-7-[[*Z*]-2-(2-amino-1,3-thiazol-4-yl)pent-2-enoyl]amino]-3-(carbamoyloxymethyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate·hydrate·hydrochloride; S-1108

Lot # FBS4045



Cefcapene pivoxil is a pivalate ester prodrug form of the third generation cephalosporin Cefcapene. Displays broad-spectrum antibacterial activity against both Gram-negative and -positive bacteria including *S. aureus*.¹ Cefcapene pivoxil potently suppresses gasdermin D-mediated pyroptosis *via* targeting of the oligomerization interface I.² Active *in vivo* in a mouse model of sepsis. Cefcapene pivoxil acts synergistically with another gasdermin D inhibitor, SCR-1481B1 (Cat #10-3971), and a PD-L1 antibody to significantly enhance the antitumor activity of anti-PD-L1 therapy.

- 1) Ishikura *et al.* (1994), *Synthesis and Structure-Activity Relationships of 7β-[(Z)-2-(2-Aminothiazol-4-yl)-3-(Substituted)-2-Propenoylamino]-3-Cephems with C-3 Substitutions*; J. Antibiotics. **47** 466
- 2) Hu *et al.* (2024), *Identification of two repurposed drugs targeting GSDMD oligomerization interface I to block pyroptosis*; Cell Chem. Biol. **31** P2024

PHYSICAL DATA

Molecular Weight:	622.11
Molecular Formula:	C ₂₃ H ₂₉ N ₅ O ₈ S ₂ ·HCl·H ₂ O
Purity:	>98% (HPLC)
	NMR: (Conforms)
Solubility:	DMSO (85 mg/mL)
Physical Description:	Off-white to beige solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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