

Cefcapene pivoxil, Antibiotic/Gasdermin D inhibitor

Catalog	Unit
TBI3972-20MG	20 mg
TBI3972-100MG	100 mg

Product Details

Formal Name: 2,2-Dimethylpropanoyloxymethyl (6R,7R)-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

Alternate Name: S-1108

Molecular Formula: C₂₃H₂₉N₅O₈S₂·HCl·H₂O

Formula Weight: 622.1

CAS Number: 147816-24-8

Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to 85 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.

Applications

Antibiotic/Gasdermin D inhibitor

Functions

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*. Cefcapene pivoxil potently suppresses gasdermin D-mediated pyroptosis via targeting of the oligomerization interface I. Active in vivo in a mouse model of sepsis. Cefcapene pivoxil acts synergistically with another gasdermin D inhibitor, SCR-1481B1, and a PD-L1 antibody to significantly enhance the antitumor activity of anti-PD-L1 therapy.

Application Procedures

First dissolved in DMSO (up to 85 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.