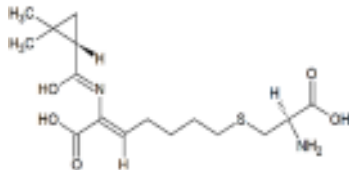


Cilastatin

ALTERNATE NAME: (2Z)-7-[[[(2R)-2-amino-2-carboxyethyl]thio]-2-[[[(1S)-2,2-dimethylcyclopropyl]carbonyl]amino]-2-heptenoic acid

CATALOG #: B2689-10 10 mg
B2689-50 50 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₆H₂₆N₂O₅S

MOLECULAR WEIGHT: 358.5

CAS NUMBER: 82009-34-5

APPEARANCE: White to off-white solid

PURITY: ≥98%

SOLUBILITY: ~ 10 mg/ml DMSO

DESCRIPTION: Cilastatin is an inhibitor of dipeptidase (dehydropeptidase I), a renal dipeptidase. It inhibits human renal dipeptidase (K_i = 0.7 μM), porcine dipeptidase (IC₅₀ = 0.11 μM), and bacterial metallo-β-lactamase CphA from *A. hydrophila* (IC₅₀ = 178 μM). Cilastatin (200 μg/ml) protects primary porcine renal proximal tubular epithelial cells from nephrotoxicity and apoptosis induced by vancomycin.

STORAGE TEMPERATURE: -20°C. Protect from light

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

ACE1 Inhibitor Screening Kit (Colorimetric) (K719)
Captopril (B1187)
NAALDase Inhibitor, PMPA (2478)

DISCLAIMER: *FOR RESEARCH USE ONLY! Not to be used on humans.*