

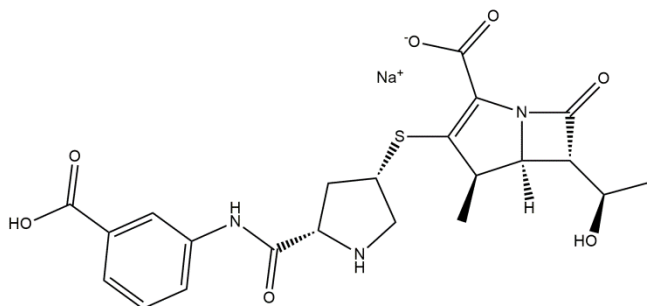
# Ertapenem sodium

05/20

**ALTERNATE NAMES:** ZD-443 sodium; sodium;(4R,5S,6S)-3-[(3S,5S)-5-[(3-carboxyphenyl)carbamoyl]pyrrolidin-3-yl]sulfanyl-6-[(1R)-1-hydroxyethyl]-4-methyl-7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylate; Sodium 3-[(2S,4S)-4-[[[(4R,5S,6S)-2-carboxy-6-(1-hydroxyethyl)-4-methyl-7-oxo-1-azabicyclo[3.2.0]hept-2-en-3-yl]sulfanyl]pyrrolidine-2-carbonyl]amino]benzoate; Invanz; L-749345; MK-826

**CATALOG #:** B3024-5 5 mg  
B3024-25 25 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>22</sub>H<sub>24</sub>N<sub>3</sub>NaO<sub>7</sub>S

**MOLECULAR WEIGHT:** 497.5

**CAS NUMBER:** 153773-82-1

**APPEARANCE:** White to off-white powder

**PURITY:** ≥98%

**SOLUBILITY:** ~20.0 mg/ml in water

**DESCRIPTION:** Ertapenem is a carbapenem broad spectrum antibiotic effective against Gram-positive and Gram-negative bacteria. It binds to the penicillin binding proteins (PBPs) and has high affinity for PBPs 2 and 3. It shows MIC<sub>90</sub> values <1 mg/L for most species of *Enterobacteriaceae*.

**STORAGE TEMPERATURE:** -80°C. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

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

**REFERENCES:**

1. Shah, P.M., and Isaacs, R.D. Ertapenem, the first of a new group of carbapenems. *Journal of Antimicrobial Chemotherapy* 52, 538-542 (2003).
2. Wexler, H.M. In vitro activity of ertapenem: Review of recent studies. *Journal of Antimicrobial Chemotherapy* 53(Suppl. S2), ii11-ii21 (2004).

**RELATED PRODUCTS:**

Gramicidin (Cat. No. B1624)  
 Anidulafungin (Cat. No. B2966)  
 Amphotericin B, USP (Cat. No. 2497)  
 Ampicillin sodium (Cat. No. 2484)  
 Gramicidin A (Cat. No. B2967)

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