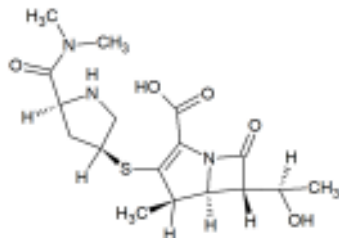


# Meropenem trihydrate

**ALTERNATE NAME:** SM-7338  
(4R,5S,6S)-3-[[[(3S,5S)-5-[(dimethylamino)carbonyl]-3-pyrrolidinyl]thio]-6-[(1R)-1-hydroxyethyl]-4-methyl-7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid, trihydrate  
ICI 194660

**CATALOG #:** B2690-50 50 mg  
B2690-250 250 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>17</sub>H<sub>31</sub>N<sub>3</sub>O<sub>8</sub>S

**MOLECULAR WEIGHT:** 437.51

**CAS NUMBER:** 119478-56-7

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

**PURITY:** ≥95%

**SOLUBILITY:** ~30 mg/ml DMSO

**DESCRIPTION:** Meropenem is a broad-spectrum carbapenem antibiotic. It is active against Gram-positive and Gram-negative bacteria. Meropenem exerts its action by penetrating bacterial cells readily and interfering with the synthesis of vital cell wall components, which leads to cell death.

**STORAGE TEMPERATURE:** -20°C. Protect from moisture

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

**RELATED PRODUCTS:**

Doripenem (B2688)  
Ampicillin trihydrate (2483)  
Cloxacillin sodium (B2687)  
Carbenicillin disodium (2485)  
Ampicillin sodium (2484)  
Meropenem trihydrate (B2690)

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