

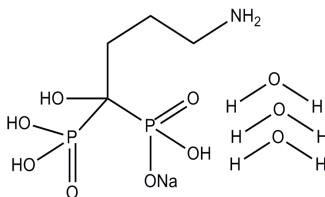
Alendronate sodium

ALTERNATE NAME: Sodium [4-amino-1-hydroxy-1-(hydroxy-oxido-phosphoryl)- butyl]phosphonic acid, trihydrate; MK-217; Fosamax

CATALOG #: 2168-50, 250

AMOUNT: 50 mg, 250 mg

STRUCTURE:



MOLECULAR FORMULA: $C_4H_{12}NaNO_7P_2 \cdot 3 H_2O$

MOLECULAR WEIGHT: 325.12

CAS NUMBER: 121268-17-5

APPEARANCE: White solid

SOLUBILITY: H_2O (10 mg/ml)

PURITY: $\geq 95\%$

STORAGE: Store at $-20^\circ C$. Protect from air and light

DESCRIPTION: Alendronate sodium is a bisphosphonate that acts as a specific inhibitor of osteoclast-mediated bone resorption. It inhibits bone resorption in vitro with an IC_{50} value of 2 nM. Also acts as a farnesyl diphosphate synthase inhibitor ($IC_{50} = 460$ nM) and CD45 protein tyrosine phosphatase inhibitor.

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

RELATED PRODUCTS:

2-APB (Cat. No. 1798-100)

Calcitriol (Cat. No. 1880-50, 250)

Pamidronate disodium (Cat. No. 1884-50, 250)

Thapsigargin (Cat. No. 1558-1)

FOR RESEARCH USE ONLY! Not to be used in humans.