
Product Data Sheet

Product Name: Alendronate sodium

Cat. No.: GC12004

Chemical Properties

Cas. No. 129318-43-0

Chemical Name sodium;(4-amino-1-hydroxy-1-phosphonobutyl)-hydroxyphosphinate

SMILES C(CC(O)(P(=O)(O)O)P(=O)(O)[O-])CN.[Na+]Formula $C_4H_{12}NNaO_7P_2$ M.Wt 271.08Solubility $\geq 15\text{mg/mL}$ in Water with gentle warming Storage Desiccate at -20°C General tips For obtaining a higher solubility , please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Osteoclast-mediated bone resorption inhibitor. Binds and blocks farnesyl diphosphate synthase (FPPS) in the HMG-CoA pathway ($IC_{50} = 460\text{ nM}$ for recombinant human FPPS); causes macrophage apoptosis. Inhibits prenylation and sterol biosynthesis in purified osteoclasts.

Caution: Product has not been fully validated for medical applications. For research use only.

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