

Product Information

ATPase inhibitor Etidronate disodium, Purity ≥98%

Cat. No.: X24-07-ZQ459

Size: 1 g; 2 g; 5 g

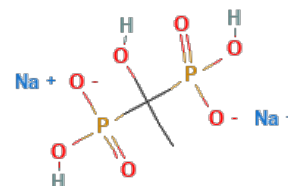
MDL: MFCD00152567

CAS Number: 7414-83-7

Compound CID: 23894

Synonym: 7414-83-7; ATPase inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Etidronate disodium specifically hinders the activity of ATPase enzymes, thereby disrupting the process of ATP hydrolysis, which is critical for energy conversion and cellular functions.
Molecular Weight	249.99
Molecular Formula	C ₂ H ₆ Na ₂ O ₇ P ₂
IUPAC Name	Disodium;hydroxy-[1-hydroxy-1-[hydroxy(oxido)phosphoryl]ethyl]phosphinate
InChI	InChI=1S/C2H8O7P2.2Na/c1-2(3,10(4,5)6)11(7,8)9;;/h3H,1H3,(H2,4,5,6)(H2,7,8,9);;/q;2*+1/p-2
InChI Key	GWBBVOVXJZATQQ-UHFFFAOYSA-L
Canonical SMILES	CC(O)(P(=O)(O)[O-])P(=O)(O)[O-].[Na+].[Na+]
Form	Lyophilized powder
Purity	≥98%
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	Etidronate disodium is used in research to inhibit ATPase, often to study its effects on bone resorption and calcium metabolism.
Storage	Store at -20°C, and keep desiccated.