Etidronic acid-d_3 disodium

Cat. No.: HY-B0302AS

CAS No.: 358730-93-5

Molecular Formula: $C_2H_3D_3Na_2O_7P_2$

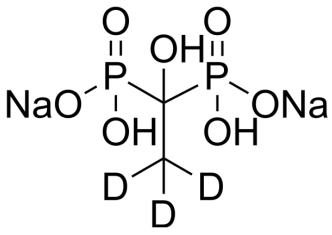
Molecular Weight: 253.01

Target: Apoptosis; Isotope-Labeled Compounds

Pathway: Apoptosis; Others

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H2O : 50 mg/mL (197.62 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.9524 mL	19.7621 mL	39.5241 mL
	5 mM	0.7905 mL	3.9524 mL	7.9048 mL
	10 mM	0.3952 mL	1.9762 mL	3.9524 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Etidronic acid-d_3 (disodium) is the deuterium labeled Etidronic acid disodium[1].

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

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

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