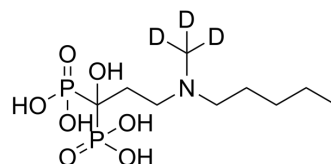


Ibandronic acid-d₃

Cat. No.:	HY-B0515AS1
CAS No.:	1130899-41-0
Molecular Formula:	C ₉ H ₂₀ D ₃ NO ₇ P ₂
Molecular Weight:	322.25
Target:	Apoptosis; Isotope-Labeled Compounds
Pathway:	Apoptosis; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ibandronic acid-d ₃ is the deuterium labeled Ibandronic acid. Ibandronic acid is a highly potent nitrogen-containing bisphosphonate used for the treatment of osteoporosis.
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

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- [3]. Epplen, R., et al., Differential effects of ibandronate, docetaxel and farnesol treatment alone and in combination on the growth of prostate cancer cell lines. *Acta Oncol*, 2011. 50(1): p. 127-33.
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- [5]. Bauss, F., et al., Effects of treatment with ibandronate on bone mass, architecture, biomechanical properties, and bone concentration of ibandronate in ovariectomized aged rats. *J Rheumatol*, 2002. 29(10): p. 2200-8.

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

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