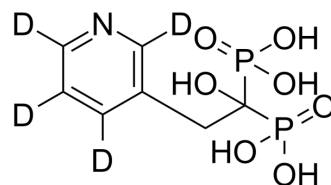


Risedronic Acid-d4

Cat. No.:	HY-B0148S
CAS No.:	1035438-80-2
Molecular Formula:	C ₇ H ₇ D ₄ NO ₇ P ₂
Molecular Weight:	287.14
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Risedronic acid-d4 (Risedronate-d4) is the deuterium labeled Risedronic acid. Risedronic acid (Risedronate) is a pyridinyl biphosphonate which inhibits osteoclast-mediated bone resorption ^{[1][2]} .
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.
- [2]. Giljevic Z, et al. Treatment of osteoporosis by risedronate-- speed, efficacy and safety. *Reumatizam*. 2006;53(2):66-71.
- [3]. Jordao FM, et al. In vitro and in vivo antiplasmodial activities of risedronate and its interference with protein prenylation in *Plasmodium falciparum*. *Antimicrob Agents Chemother*. 2011 May;55(5):2026-31.

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

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