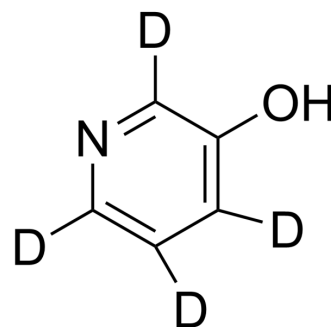


3-Hydroxypyridine-d₄

| | |
|--------------------|---|
| Cat. No.: | HY-Y1129S |
| Molecular Formula: | C ₅ HD ₄ NO |
| Molecular Weight: | 99.12 |
| Target: | Isotope-Labeled Compounds |
| Pathway: | Others |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | 3-Hydroxypyridine-d ₄ is the deuterium labeled 3-Hydroxypyridine[1]. 3-Hydroxypyridine is isolated from Bamboo grass. 3-Hydroxypyridine derivatives are structural analogues of vitamin B6 and have a wide range of pharmacological properties, such as antioxidant properties[2][3]. |
| 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 Feb;53(2):211-216.
- [2]. Atsushi Endo, et al. Bamboo grass extract and use of the same extract. JP2006298766A
- [3]. L D Lukyanova, et al. Energotropic effect of succinate-containing derivatives of 3-hydroxypyridine. *Bull Exp Biol Med*. 2009 Oct148(4):587-91.

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

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