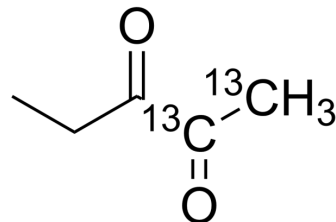


2,3-Pentanedione-¹³C₂

Cat. No.:	HY-W012998S1
Molecular Formula:	C ₅ ¹³ C ₂ H ₈ O ₂
Molecular Weight:	102.1
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	2,3-Pentanedione- ¹³ C ₂ is ¹³ C labeled Furaneol (HY-N7093). Furaneol is mainly isolated from American grape (<i>Vitis labrusca</i>) and its hybrid grape. Furaneol is an important aroma compound in fruits and contribute to the strawberry-like note in some wines ^[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]. Morgan DL, et al. Bronchial and bronchiolar fibrosis in rats exposed to 2,3-pentanedione vapors: implications for bronchiolitis obliterans in humans. *Toxicol Pathol.* 2012;40(3):448-465.

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

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

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