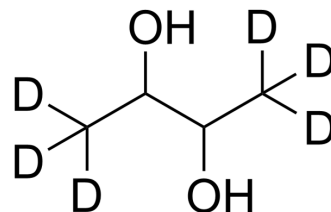


2,3-Butanediol-d₆

Cat. No.:	HY-128387S
Molecular Formula:	C ₄ H ₄ D ₆ O ₂
Molecular Weight:	96.16
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	2,3-Butanediol-d ₆ is the deuterium labeled 2,3-Butanediol[1]. 2,3-Butanediol is a butanediol derived from the bioconversion of natural resources[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 Feb;53(2):211-216.
- [2]. Zhang L, et al. Mechanism of 2,3-butanediol stereoisomers formation in a newly isolated *Serratia* sp. T241. *Sci Rep*. 2016 Jan 12;6:19257.

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

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