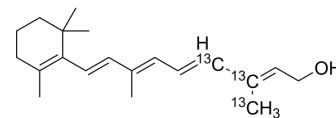


Retinol-¹³C₃

Cat. No.:	HY-B1342S3
Molecular Formula:	C ₁₇ ¹³ C ₃ H ₃₀ O
Molecular Weight:	289.43
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	-80°C, protect from light, stored under nitrogen



BIOLOGICAL ACTIVITY

Description	Retinol- ¹³ C ₃ (Vitamin A1- ¹³ C ₃ ; all-trans-Retinol- ¹³ C ₃) is a ¹³ C-labeled Vitamin A/Retinol (HY-B1342). Retinol is an endogenous metabolite.
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]. Zhang M, et al. High-fat diet enhanced retinal dehydrogenase activity, but suppressed retinol dehydrogenase activity in liver of rats. J Pharmacol Sci. 2015 Apr;127(4):430-8.
- [2]. Miyazaki H, et al. Retinol status and expression of retinol-related proteins in methionine-choline deficient rats. J Nutr Sci Vitaminol (Tokyo). 2014;60(2):78-85.
- [3]. 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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