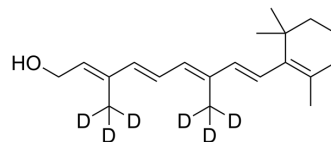


## Retinol-d<sub>6</sub>

Cat. No.:	HY-B1342S1
CAS No.:	2483831-77-0
Molecular Formula:	C <sub>20</sub> H <sub>24</sub> D <sub>6</sub> O
Molecular Weight:	292.49
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



### BIOLOGICAL ACTIVITY

Description	Retinol-d <sub>6</sub> is the deuterium labeled Vitamin A. 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 <sup>[1]</sup> . 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]. 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.
- [3]. 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.

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

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