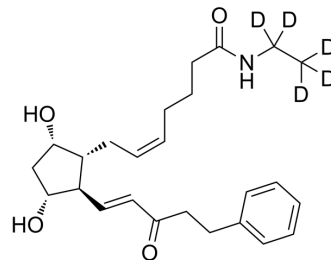


## 15-Keto Bimatoprost-d5

<b>Cat. No.:</b>	HY-132277S		
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>30</sub> D <sub>5</sub> NO <sub>4</sub>		
<b>Molecular Weight:</b>	418.58		
<b>Target:</b>	Isotope-Labeled Compounds		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	15-Keto Bimatoprost-d5 is the deuterium labeled 15-Keto Bimatoprost. 15-Keto Bimatoprost is a prostaglandin F <sub>2α</sub> (PGF <sub>2α</sub> ) analog that can be used for the research of ocular hypotensive <sup>[1][2]</sup> .
<b>In Vitro</b>	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]. Rahman MS, et al. Screening and quantification of undeclared PGF<sub>2α</sub> analogs in eyelash-enhancing cosmetic serums using LC-MS/MS. *J Pharm Biomed Anal.* 2022 Sep 20;219:114940.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA