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Zuschläge

- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

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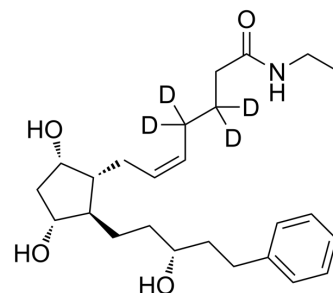
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Latanoprost ethyl amide-d₄

Cat. No.:	HY-129934S
Molecular Formula:	C ₂₅ H ₃₅ D ₄ NO ₄
Molecular Weight:	421.61
Target:	Isotope-Labeled Compounds; Prostaglandin Receptor
Pathway:	Others; GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Latanoprost ethyl amide-d₄ (Lat-NEt-d₄) is deuterium labeled Latanoprost ethyl amide. Latanoprost ethyl amide (Lat-NEt) is a latanoprost analog in which the C-1 carboxyl group has been modified to an N-ethyl amide. Prostaglandin esters have been shown to have ocular hypotensive activity.¹ Prostaglandin N-ethyl amides were recently introduced as alternative prostaglandin ocular hypotensive prodrugs. Although it has been claimed that prostaglandin ethyl amides are not converted to the free acids in vivo, studies in our laboratories have shown that bovine and human corneal tissue converts the N-ethyl amides of various prostaglandins to the free acids with a conversion rate of about 2.5 µg/g corneal tissue/hr. Lat-NEt would be expected to show the typical intraocular effects of Latanoprost free acid, but with the much slower hydrolysis pharmacokinetics of the prostaglandin N-amides^[1].

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Larrouy, et al. Cloning and mRNA tissue distribution of human PPARγ coactivator-1. *Int. J. Obes. Relat. Metab. Disord*. 23(12), 1327-1332 (1999).

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

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