Bimatoprost-d_5

Cat. No.: HY-B0191S

Molecular Formula: $C_{25}H_{32}D_5NO_4$

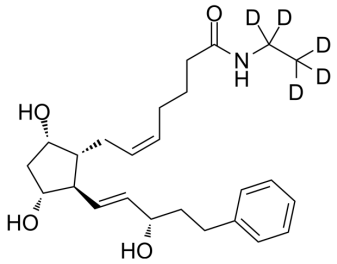
Molecular Weight: 420.6

Target: Prostaglandin Receptor

Pathway: GPCR/G Protein

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (237.76 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3776 mL	11.8878 mL	23.7756 mL
	5 mM	0.4755 mL	2.3776 mL	4.7551 mL
	10 mM	0.2378 mL	1.1888 mL	2.3776 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Bimatoprost-d_5 is a deuterium labeled Bimatoprost. Bimatoprost is a prostaglandin analog and is a topical hypotensive agent frequently used for treating ocular hypertension and glaucoma. Bimatoprost also has an antiadipogenic effect[1][2].

REFERENCES

[1]. Park J, et al. Changes to upper eyelid orbital fat from use of topical bimatoprost, travoprost, and latanoprost. Jpn J Ophthalmol. 2011 Jan;55(1):22-7.

[2]. Krauss AH, et al. Update on the mechanism of action of bimatoprost: a review and discussion of new evidence. Surv Ophthalmol. 2004 Mar;49 Suppl 1:S5-11.

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

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