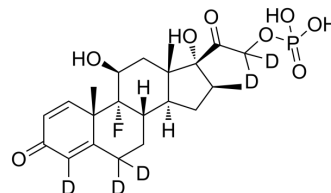


Betamethasone 21-phosphate-d₅

Cat. No.:	HY-13570CS
Molecular Formula:	C ₂₂ H ₂₅ D ₅ FO ₈ P
Molecular Weight:	477.47
Target:	Apoptosis; Glucocorticoid Receptor; Isotope-Labeled Compounds
Pathway:	Apoptosis; Immunology/Inflammation; Vitamin D Related/Nuclear Receptor; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Betamethasone 21-phosphate-d ₅ is the deuterium labeled Betamethasone disodium phosphate. Betamethasone disodium phosphate (Betamethasone 21-phosphate disodium salt) is a kind of corticosteroid, which is commonly used in the intralesional research of keloids[1].
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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Wang L, et al. Determination of betamethasone disodium phosphate in the in vitro media of PLGA microspheres by high-performance liquid chromatography. *J Pharm Biomed Anal.* 2002;28(3-4):629-635.

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

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