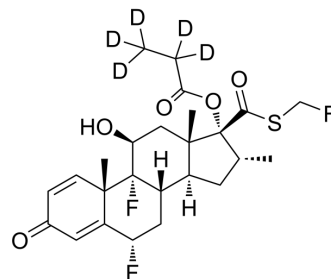


Fluticasone propionate-d₅

Cat. No.:	HY-B0154S1
CAS No.:	1093258-28-6
Molecular Formula:	C ₂₅ H ₂₆ D ₅ F ₃ O ₅ S
Molecular Weight:	505.6
Target:	Enterovirus; Glucocorticoid Receptor; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Anti-infection; Immunology/Inflammation; Vitamin D Related/Nuclear Receptor; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Fluticasone propionate-d ₅ is deuterium labeled Fluticasone (propionate). Fluticasone propionate, a potent topical anti-inflammatory corticosteroid, is a selective glucocorticoid receptor agonist, with an absolute affinity (KD) of 0.5 nM. Fluticasone propionate shows little or no activity at other steroid receptors. Anti-viral activity[1][2].
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]. Bryson HM, et al. Intranasal fluticasone propionate. A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic potential in allergic rhinitis. *Drugs.* 1992;43(5):760-775.
- [3]. Johnson M. The anti-inflammatory profile of fluticasone propionate. *Allergy.* 1995;50(23 Suppl):11-14.
- [4]. Singanayagam A, et al. Effect of fluticasone propionate on virus-induced airways inflammation and anti-viral immune responses in mice. *Lancet.* 2015 Feb 26;385 Suppl 1:S88.

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

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