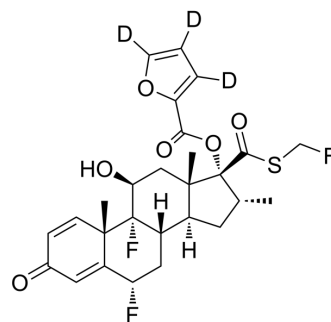


## Fluticasone furoate-d<sub>3</sub>

<b>Cat. No.:</b>	HY-15234S
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>26</sub> D <sub>3</sub> F <sub>3</sub> O <sub>6</sub> S
<b>Molecular Weight:</b>	541.59
<b>Target:</b>	Glucocorticoid Receptor; Isotope-Labeled Compounds
<b>Pathway:</b>	Immunology/Inflammation; Vitamin D Related/Nuclear Receptor; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Fluticasone furoate-d <sub>3</sub> is deuterium labeled Fluticasone furoate. Fluticasone furoate is a topical, intranasal, enhanced-affinity synthetic trifluorinated corticosteroid with a K <sub>d</sub> of 0.3 nM. Fluticasone furoate has potent anti-inflammatory and anti-asthmatic activity, and low systemic exposure. Fluticasone furoate has the potential for allergic rhinitis treatment[1][2].
<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]. Alizadeh Z, et al. Asthma phenotypes and T-bet protein expression in cells treated with Fluticasone Furoate/Vilanterol. *Pulm Pharmacol Ther.* 2020 Feb;60:101886.
- [3]. Giavina-Bianchi P, et al. Fluticasone furoate nasal spray in the treatment of allergic rhinitis. *Ther Clin Risk Manag.* 2008 Apr;4(2):465-72.

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

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