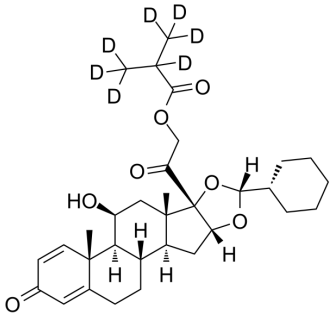
Ciclesonide-d_7

Cat. No.:	HY-B0625S
CAS No.:	1225382-70-6
Molecular Formula:	$C_{32}H_{37}D_7O_7$
Molecular Weight:	547.73
Target:	Glucocorticoid Receptor
Pathway:	Immunology/Inflammation; Vitamin D Related/Nuclear Receptor
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Ciclesonide-d_7 is the deuterium labeled Ciclesonide. Ciclesonide (RPR251526) is a glucocorticoid with an potent anti-inflammatory activity. Ciclesonide can be used for asthma research[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]. Mutch, E., et al., The role of esterases in the metabolism of ciclesonide to desisobutyryl-ciclesonide in human tissue. Biochem Pharmacol, 2007. 73(10): p. 1657-64.

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