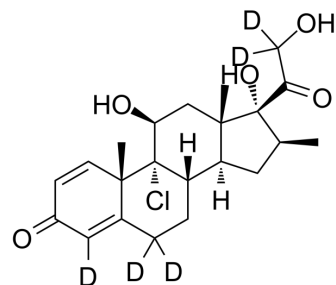


Beclomethasone-d5

| | |
|---------------------------|---|
| Cat. No.: | HY-B1540S |
| CAS No.: | 1263143-48-1 |
| Molecular Formula: | C ₂₂ H ₂₄ D ₅ ClO ₅ |
| Molecular Weight: | 413.95 |
| Target: | Glucocorticoid Receptor |
| Pathway: | GPCR/G Protein |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | Beclomethasone-d5 is the deuterium labeled Beclometasone. Beclometasone (Beclomethasone) is a prototype glucocorticoid receptor agonist. |
| 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]. He S, et al. Neutrophil-mediated experimental metastasis is enhanced by VEGFR inhibition in a zebrafish xenograft model. *J Pathol.* 2012 Aug;227(4):431-45.

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

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