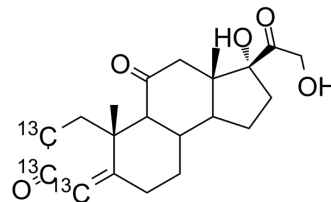


Cortisone-¹³C₃

| | |
|---------------------------|--|
| Cat. No.: | HY-17461S |
| CAS No.: | 2350278-95-2 |
| Molecular Formula: | C ₁₈ ¹³ C ₃ H ₂₈ O ₅ |
| Molecular Weight: | 363.42 |
| Target: | Glucocorticoid Receptor; Endogenous Metabolite |
| Pathway: | Immunology/Inflammation; Vitamin D Related/Nuclear Receptor; Metabolic Enzyme/Protease |
| Storage: | Solution, -20°C, 2 years |



BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | Cortisone- ¹³ C ₃ is the ¹³ C-labeled Cortisone. Cortisone (17-Hydroxy-11-dehydrocorticosterone), an oxidized metabolite of Cortisol (a Glucocorticoid). Cortisone acts as an immunosuppressant and anti-inflammatory agent. Cortisone can partially intervene in binding of Glucocorticoid to Glucocorticoid-receptor at high concentrations[1][3][4]. |
| 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

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- [2]. Hirano T, et, al. Cortisone counteracts apoptosis-inducing effect of cortisol in human peripheral-blood mononuclear cells. *Int Immunopharmacol.* 2001 Nov;1(12):2109-15.
- [3]. McCue RE, et, al. The effect of cortisone on the accumulation, activation, and necrosis of macrophages in tuberculous lesions. *Inflammation.* 1978 Jun;3(2):159-76.
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Caution: Product has not been fully validated for medical applications. For research use only.

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