
11-Deoxycortisol-d5

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11-Deoxycortisol-d5 (2,2,4,6,6-d5) is the deuterium-labeled 11-deoxycortisol and is intended for use as an analytical reference standard in GC- or LC-MS.

11-deoxycortisol is an endogenous glucocorticoid steroid hormone and cortisol precursor. Cortisol (hydrocortisone) is synthesized from 11-deoxycortisol through a stereoselective hydroxylation reaction at position 11 β catalyzed by CYP11B1. 11-deoxycortisol could be used as a biomarker for the diagnosis of a rare form of Congenital Adrenal Hyperplasia (CAH) caused by 11 β -hydroxylase deficiency, Cushing's disease, ACTH-producing tumors, or 11 β -hydroxylase deficiency.

General properties

Appearance: off-white solid

Molecular weight: 351.50

CAS number: 1258063-56-7

Molecular formula: C₂₁H₃₀O₄

Solubility: acetonitrile, methanol

Quality control: NMR ¹H and HPLC-MS (95+ %, D: 98+ %)

Storage conditions: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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