

Product Data Sheet

Product Name: 21-Deoxycortisol

Cat. No.: GC46526

Chemical Properties

Cas. No. 641-77-0

SMILES O=C(C)[C@@]1(O)CC[C@@]2([H])[C@]3([H])CCC4=CC(CC[C@]4(C)[C@@]3([H])[C@@H](O)C[C@@]21C)=O

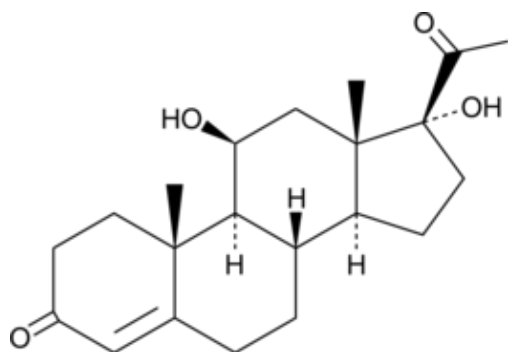
Formula C₂₁H₃₀O₄ M.Wt 346.5

Solubility DMSO : 100 mg/mL (288.63 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

21-Deoxycortisol is a corticosteroid metabolite of 17-hydroxyprogesterone produced in the adrenal gland *via* 11-hydroxylation by 11 β -hydroxylase.^{1,2} Serum levels of 21-deoxycortisol are elevated in patients with congenital adrenal hyperplasia that are heterozygous for mutations in *CYP2A21*, the gene encoding steroid 21-hydroxylase, and have been used as a biomarker for the detection of 21-hydroxylase deficiencies.

1. Fiet, J., Villette, J.-M., Galons, H., et al. The application of a new highly-sensitive radioimmunoassay for plasma 21-deoxycortisol to the detection of steroid-21-hydroxylase deficiency. *Ann. Clin.*

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

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Biochem.31(Pt. 1)56-64(1994) 2.Cristoni, S., Cuccato, D., Sciannamblo, M., et al.Analysis of 21-deoxycortisol, a marker of congenital adrenal hyperplasia, in blood by atmospheric pressure chemical ionization and electrospray ionization using multiple reaction monitoringRapid Commun. Mass Spectrom.18(1)77-82(2004)

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