

18-hydroxy-11-deoxy Corticosterone

Chemical Properties

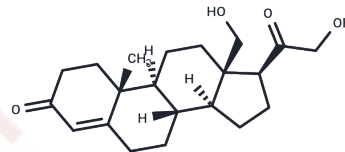
CAS No. : 379-68-0

Formula: C₂₁H₃₀O₄

Molecular Weight: 346.46

Appearance:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	18-Hydroxy-11-deoxy Corticosterone (18-OH-DOC) is a mineralocorticoid produced by the zona fasciculata of the adrenal gland, with its biosynthesis regulated by adrenocorticotrophic hormone (ACTH) and angiotensin II. This regulation heightens 18-OH-DOC production in isolated human adrenal glomerulosa cells and allows for its formation from 11-deoxy corticosterone (DOC) in human SK-MEL188 melanoma cells. As an intermediate in progesterone metabolism, 18-OH-DOC can be converted to aldosterone in rat adrenal glands' capsular portion. Its continuous infusion (200 µg/rat per day) has been shown to raise systolic blood pressure in uninephrectomized saline-drinking rats, and elevated plasma levels of 18-OH-DOC have been observed in the adb/db mouse model of type 2 diabetes.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8863 mL	14.4317 mL	28.8634 mL
5 mM	0.5773 mL	2.8863 mL	5.7727 mL
10 mM	0.2886 mL	1.4432 mL	2.8863 mL
50 mM	0.0577 mL	0.2886 mL	0.5773 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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