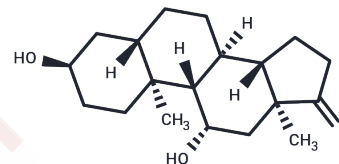


11 $\beta$ -Hydroxyandrosterone

## Chemical Properties

CAS No. :	57-61-4
Formula:	C <sub>19</sub> H <sub>30</sub> O <sub>3</sub>
Molecular Weight:	306.44
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	11 $\beta$ -Hydroxyandrosterone is a urinary adrenal-derived androgen metabolite in children with CAH.
Targets(IC50)	Others,Endogenous Metabolite
In vitro	Among the metabolites of DHEA, AD4, and 11OHAD4, only 11 $\beta$ -Hydroxyandrosterone (a metabolite of 11OHAD4) showed no overlap between C21OHD (classic 21-hydroxylase deficiency) and PORD (cytochrome P450 oxidoreductase deficiency) at a threshold of 0.35 mg/g creatinine. Detection of 11 $\beta$ -Hydroxyandrosterone distinguished the two. [1]

## Solubility Information

Solubility	DMSO: 80 mg/mL (261.06 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2633 mL	16.3164 mL	32.6328 mL
5 mM	0.6527 mL	3.2633 mL	6.5266 mL
10 mM	0.3263 mL	1.6316 mL	3.2633 mL
50 mM	0.0653 mL	0.3263 mL	0.6527 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Koyama Y, et al. Two-step biochemical differential diagnosis of classic 21-hydroxylase deficiency and cytochrome P450 oxidoreductase deficiency in Japanese infants by GC-MS measurement of urinary pregnanetriolone/tetrahydrocortisone ratio and 11 $\beta$ -hydroxyandrosterone. Clin Chem. 2012 Apr;58(4):741-7.

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