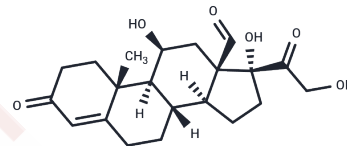


## 18-Oxocortisol

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 2410-60-8   |
| Formula:          | C <sub>21</sub> H <sub>28</sub> O <sub>6</sub>  |
| Molecular Weight: | 376.449   |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |   |
|---------------|---|
| Description   | 18-Oxocortisol is a cortisol derivative generated by aldosterone synthase (CYP11B2). It acts as a naturally occurring mineralocorticoid agonist and serves as a biomarker in adrenal vein sampling.   |
| Targets(IC50) | Glucocorticoid Receptor,Others,Endogenous Metabolite  |
| In vivo       | Administration of 18-oxocortisol in rats triggers mineralocorticoid-type hypertension, characterized by hypokalemia, as well as enlargement of cardiac and renal tissues and cardiovascular lesions. Similarly, when administered to sheep, 18-oxocortisol leads to a swift elevation in blood pressure. Nonetheless, achieving an increase in blood pressure necessitates high doses[3]. |

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 2.6564 mL | 13.282 mL | 26.564 mL |
| 5 mM  | 0.5313 mL | 2.6564 mL | 5.3128 mL |
| 10 mM | 0.2656 mL | 1.3282 mL | 2.6564 mL |
| 50 mM | 0.0531 mL | 0.2656 mL | 0.5313 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

Nakamura Y, et al. 18-oxocortisol measurement in adrenal vein sampling as a biomarker for subclassifying primaryaldosteronism. J Clin Endocrinol Metab. 2011 Aug;96(8):E1272-8.

Ulick S, et al. 18-oxocortisol, a naturally occurring mineralocorticoid agonist. Endocrinology. 1983 Dec;113(6):2320-2.

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