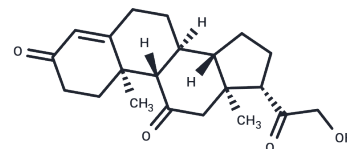


## 11-Dehydrocorticosterone

### Chemical Properties

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| CAS No. :         | 72-23-1                                                  |
| Formula:          | C <sub>21</sub> H <sub>28</sub> O <sub>4</sub>           |
| Molecular Weight: | 344.44                                                   |
| Appearance:       | no data available                                        |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



### Biological Description

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | 11-Dehydrocorticosterone is an endogenous mineralocorticoid. It increases Na <sup>+</sup> /K <sup>+</sup> -ATPase mRNA expression in vascular smooth muscle cells and inhibits aldosterone action in <i>B. marinus</i> toad bladder tissue in a concentration-dependent manner. 11-Dehydrocorticosterone decreases the sodium/creatinine ratio and increases the potassium/creatinine ratio in rat urine in a dose-dependent manner in a model of 11 $\beta$ -hydroxysteroid dehydrogenase inhibition induced by carbenoxolone. Chronic administration 11-dehydrocorticosterone increases plasma glucocorticoids levels, body weight gain, and adiposity, as well as induces insulin resistance in mice. |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.9033 mL | 14.5163 mL | 29.0326 mL |
| 5 mM  | 0.5807 mL | 2.9033 mL  | 5.8065 mL  |
| 10 mM | 0.2903 mL | 1.4516 mL  | 2.9033 mL  |
| 50 mM | 0.0581 mL | 0.2903 mL  | 0.5807 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**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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