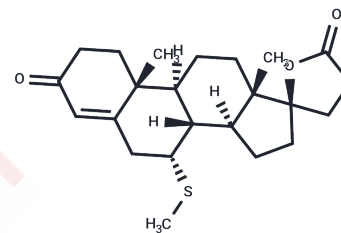


7 $\alpha$ -(Thiomethyl)spironolactone

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No. :         | 38753-77-4   |
| Formula:          | C <sub>23</sub> H <sub>32</sub> O <sub>3</sub> S   |
| Molecular Weight: | 388.56   |
| Storage:          | Store at low temperature<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><small>Actual storage temperature shall be subject to the COA.</small> |



## Biological Description

|               |  |
|---------------|--|
| Description   | 7 $\alpha$ -(Thiomethyl)spironolactone is a nuclear steroid receptor antagonist and a major metabolite of the synthetic steroid spironolactone. 7 $\alpha$ -(Thiomethyl)spironolactone is used in pharmacological studies, including research on steroid metabolism, nuclear receptor signaling, and coronavirus-related investigations. |
| Targets(IC50) | Estrogen Receptor/ERR,SARS-CoV,Nuclear receptor  |

## Solubility Information

|            |  |
|------------|--|
| Solubility | DMSO: 80 mg/mL (205.89 mM),Sonication is recommended.<br>Chloroform: Slightly soluble<br>Ethyl Acetate: Slightly soluble<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 2.5736 mL | 12.868 mL | 25.7361 mL |
| 5 mM  | 0.5147 mL | 2.5736 mL | 5.1472 mL  |
| 10 mM | 0.2574 mL | 1.2868 mL | 2.5736 mL  |
| 50 mM | 0.0515 mL | 0.2574 mL | 0.5147 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

Jankowski A, et al. Simultaneous determination of spironolactone and its metabolites in human plasma. J Pharm Biomed Anal. 1996 Jun;14(8-10):1359-65.

Gardiner P, et al. Spironolactone metabolism: steady-state serum levels of the sulfur-containing metabolites. J Clin Pharmacol. 1989 Apr;29(4):342-7.

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