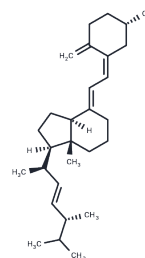


## Vitamin D2

### Chemical Properties

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| CAS No. :         | 50-14-6                                                  |
| Formula:          | C <sub>28</sub> H <sub>44</sub> O                        |
| Molecular Weight: | 396.65                                                   |
| Appearance:       | no data available                                        |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



### Biological Description

|               |                                                                                                                                                                                                                                                                                                                         |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | Ergocalciferol (Vitamin D2 (Calciferol)) is a derivative of ergosterol formed by ultraviolet rays breaking of the C9-C10 bond with a strong inhibitory effect against bladder tumor promotion by sodium saccharin, and it induces cell differentiation in leukemia cells. Vitamin D2 is an inhibitor of DNA Polymerase. |
| Targets(IC50) | DNA/RNA Synthesis,Endogenous Metabolite                                                                                                                                                                                                                                                                                 |

### Solubility Information

|            |                                                                                                                                                                                                    |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solubility | H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble),<br/>DMSO: 45 mg/mL (113.45 mM),<br/>Ethanol: 74 mg/mL (186.6 mM),<br/>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.5211 mL | 12.6056 mL | 25.2111 mL |
| 5 mM  | 0.5042 mL | 2.5211 mL  | 5.0422 mL  |
| 10 mM | 0.2521 mL | 1.2606 mL  | 2.5211 mL  |
| 50 mM | 0.0504 mL | 0.2521 mL  | 0.5042 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.

### Reference

Mizushina Y, et al. J Pharmacol Sci. 2003 Jul;92(3):283-90.

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