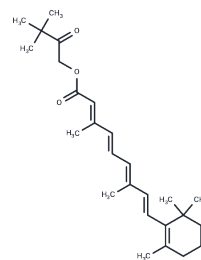


Hydroxypinacolone Retinoate

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 893412-73-2 |
| Formula: | C ₂₆ H ₃₈ O ₃ |
| Molecular Weight: | 398.58 |
| Storage: | Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i> |



Biological Description

| | |
|---------------|--|
| Description | Hydroxypinacolone Retinoate (HPR) is a retinoid commonly added to skin care products and can be used to study skin aging and acne. |
| Targets(IC50) | Others |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 30 mg/mL (75.27 mM), Sonication is recommended. Ethanol: 247.5 mg/mL (620.95 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+90% Saline: 3 mg/mL (7.53 mM), Suspension. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.5089 mL | 12.5445 mL | 25.0891 mL |
| 5 mM | 0.5018 mL | 2.5089 mL | 5.0178 mL |
| 10 mM | 0.2509 mL | 1.2545 mL | 2.5089 mL |
| 50 mM | 0.0502 mL | 0.2509 mL | 0.5018 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

Wang Q, et al. The synergistic effect of retinyl propionate and hydroxypinacolone retinoate on skin aging. J Cosmet Dermatol. 2023 Jul;22(7):2040-2049.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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