

Ricinoleic acid

Chemical Properties

CAS No. : 141-22-0

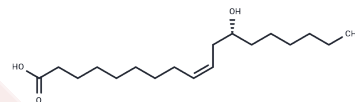
Formula: C18H34O3

Molecular Weight: 298.46

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|---|
| Description | Ricinoleic acid is a natural product that constitutes about 90% of the fatty acids in castor oil. |
| Targets(IC50) | Others,Prostaglandin Receptor |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 250 mg/mL (837.63 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (33.51 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (33.51 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <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 | 3.3505 mL | 16.7527 mL | 33.5053 mL |
| 5 mM | 0.6701 mL | 3.3505 mL | 6.7011 mL |
| 10 mM | 0.3351 mL | 1.6753 mL | 3.3505 mL |
| 50 mM | 0.067 mL | 0.3351 mL | 0.6701 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

Alves S P , Araujo C M , Queiroga R C , et al. New insights on the metabolism of ricinoleic acid in ruminants[J].
Journal of dairy ence, 2017, 100(10):8018-8032.

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