# Data Sheet (Cat.No.T8017)

TargetMol

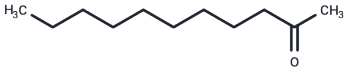
## 2-Undecanone

### Chemical Properties

CAS No. : 112-12-9

Formula: C11H22O

Molecular Weight: 170.29




Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

### Biological Description

| | |
|---|---|
| Description | 2-Undecanone (Methylnonylketone) inhibits DnaKJE-ClpB dione-dependent refolding of heat-inactivated bacterial fluorokinase. It has an inhibitory effect on lung |
| Targets(IC50) | Others,Antibacterial |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 12 mg/mL (70.47 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (11.74 mM),Sonication is recommended.<br>*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.* |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 5.8723 mL | 29.3617 mL | 58.7234 mL |
| 5 mM | 1.1745 mL | 5.8723 mL | 11.7447 mL |
| 10 mM | 0.5872 mL | 2.9362 mL | 5.8723 mL |
| 50 mM | 0.1174 mL | 0.5872 mL | 1.1745 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

Fischer D , Imholt C , Prokop A , et al. Efficacy of methyl nonyl ketone as an in-soil repellent for common voles (Microtus arvalis)[J]. Pest Management Science, 2013, 69(3).

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