

Tridecane

Chemical Properties

CAS No. : 629-50-5

Formula: C₁₃H₂₈

Molecular Weight: 184.36

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	n-Tridecane (n-Tridecane) is both a stress compound released by the brown marmorated stink bugs and an volatile oil component isolated from essential oil of Piper aduncum L. Tridecane.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 55 mg/mL (298.33 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: 2 mg/mL (10.85 mM),Sonication is recommended. <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	5.4242 mL	27.1209 mL	54.2417 mL
5 mM	1.0848 mL	5.4242 mL	10.8483 mL
10 mM	0.5424 mL	2.7121 mL	5.4242 mL
50 mM	0.1085 mL	0.5424 mL	1.0848 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

Motoi Yamashita, et al. The effect of pressure on the phase transition behavior of tridecane, pentadecane, and heptadecane: a Fourier transform infrared spectroscopy study. J Chem Phys. 2011 Apr 14;134(14):144503.

Pallavi Mohekar, et al. Influence of Winemaking Processing Steps on the Amounts of (E)-2-Decenal and Tridecane as Off-Odorants Caused by Brown Marmorated Stink Bug (Halyomorpha halys). J Agric Food Chem. 2017 Feb 1;65(4):872-878.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481