Data Sheet (Cat.No.T22295)

TargetMol

cis-3-Hexen-1-ol

Chemical Properties

CAS No. : 928-96-1

Formula: C6H12O

Molecular Weight: 100.16

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	cis-3-Hexen-1-ol ((Z)-3-Hexen-1-ol) is an aroma compound described as green grassy or the smell of cut grass. It is found in many fresh fruits and vegetables and is widely used as a flavor additive in processed food and perfumes. cis-3-Hexen-1-ol also attracts various insects[1][2].
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 99 mg/mL (988.42 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: 3.3 mg/mL (32.95 mM),Sonication is recommended. *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	9.984 mL	49.9201 mL	99.8403 mL
5 mM	1.9968 mL	9.984 mL	19.9681 mL
10 mM	0.9984 mL	4.992 mL	9.984 mL
50 mM	0.1997 mL	0.9984 mL	1.9968 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

Jeremy F McRae, et al. Genetic variation in the odorant receptor OR2J3 is associated with the ability to detect the "grassy" smelling odor, cis-3-hexen-1-ol. Chem Senses. 2012 Sep;37(7):585-93.
Yuqian Zhang, et al. Spatial differences in (Z)-3-hexen-1-ol production preferentially reduces Spodoptera litura larva attack on the young leaves of Nicotiana benthamiana. Plant Sci. 2016 Nov;252:367-373.