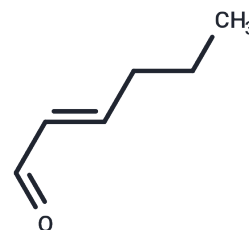


## Trans-2-Hexenal

## Chemical Properties

CAS No. :	6728-26-3
Formula:	C <sub>6</sub> H <sub>10</sub> O
Molecular Weight:	98.14
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	Trans-2-Hexenal (trans-2-Hexenal) is an $\alpha,\beta$ -unsaturated carbonyl compound protecting plants against harmful substances.
Targets(IC50)	Endogenous Metabolite,Antifungal

## Solubility Information

Solubility	DMSO: 200 mg/mL (2037.91 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (101.9 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (101.9 mM),Solution. <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	10.1895 mL	50.9476 mL	101.8953 mL
5 mM	2.0379 mL	10.1895 mL	20.3791 mL
10 mM	1.019 mL	5.0948 mL	10.1895 mL
50 mM	0.2038 mL	1.019 mL	2.0379 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

Konidari CN, et al. Determination of plasma, urine, and bovine serum albumin low-molecular-weight carbonyl levels by capillary gas chromatography with electron-capture and mass-selective detection. *Anal Biochem.* 2005 Mar 1;338(1):62-70.

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