

## Levoglucosenone

## Chemical Properties

CAS No. :	37112-31-5
Formula:	C <sub>6</sub> H <sub>6</sub> O <sub>3</sub>
Molecular Weight:	126.11
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	Levoglucosenone has cytotoxic. It against human hepatocarcinoma cell lines.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 65 mg/mL (515.42 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: 2 mg/mL (15.86 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	7.9296 mL	39.6479 mL	79.2959 mL
5 mM	1.5859 mL	7.9296 mL	15.8592 mL
10 mM	0.793 mL	3.9648 mL	7.9296 mL
50 mM	0.1586 mL	0.793 mL	1.5859 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

Sarnik J, Czubatka-Bienkowska A, Macieja A, Bielski R, Witczak ZJ, Poplawski T. The induction of oxidative stress in cervix carcinoma cells by levoglucosenone derived 4-S-salicyl derivative and (1-4)-S-thio-disaccharides. Part 4. *Bioorg Med Chem Lett*. 2017 Mar 1;27(5):1215-1219. doi: 10.1016/j.bmcl.2017.01.064. Epub 2017 Jan 22. PubMed PMID: 28185719.

Krishna SH, Walker TW, Dumesic JA, Huber GW. Kinetics of Levoglucosenone Isomerization. *ChemSusChem*. 2017 Jan 10;10(1):129-138. doi: 10.1002/cssc.201601308. Epub 2016 Dec 13. PubMed PMID: 27863100.

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