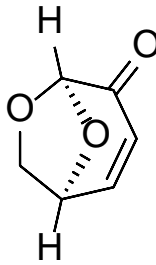


Product data sheet



MedKoo Cat#: 525973 Name: Levoglucosenone CAS: 37112-31-5 Chemical Formula: C ₆ H ₆ O ₃ Exact Mass: 126.0317 Molecular Weight: 126.111		
Product supplied as:		Powder
Purity (by HPLC):		≥ 98%
Shipping conditions		Ambient temperature
Storage conditions:		Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:

Levoglucosenone is a cytotoxic, against human hepatocarcinoma cell lines.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
TBD	TBD	TBD

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	7.93 mL	39.65 mL	79.30 mL
5 mM	1.59 mL	7.93 mL	15.86 mL
10 mM	0.79 mL	3.97 mL	7.93 mL
50 mM	0.16 mL	0.79 mL	1.59 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

1. Giri GF, Danielli M, Marinelli RA, Spanevello RA. Cytotoxic effect of levoglucosenone and related derivatives against human hepatocarcinoma cell lines. *Bioorg Med Chem Lett.* 2016 Aug 15;26(16):3955-7. doi: 10.1016/j.bmcl.2016.07.007. Epub 2016 Jul 4. PMID: 27422336.

In vivo study

TBD

7. Bioactivity

Biological target:

Levoglucosenone is a cytotoxic, against human hepatocarcinoma cell lines.

In vitro activity

This study reports the cytotoxic effect of levoglucosenone and some related derivatives against hepatocarcinoma cell lines. Compounds were obtained in only one synthetic step and one of them showed an activity within the range of IC₅₀ values of cisplatin, a frequently administered chemotherapy drug.

Reference: *Bioorg Med Chem Lett.* 2016 Aug 15;26(16):3955-7. <https://pubmed.ncbi.nlm.nih.gov/27422336/>

Product data sheet



In vivo activity

TBD

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.