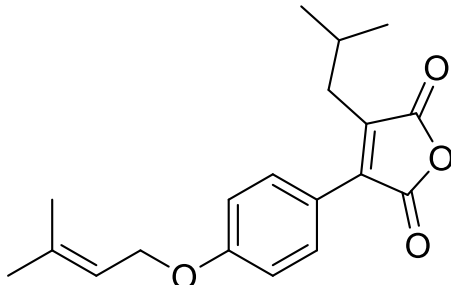


# Product data sheet



MedKoo Cat#: 555859 Name: Antrodin A CAS: 656830-24-9 Chemical Formula: C <sub>19</sub> H <sub>22</sub> O <sub>4</sub> Exact Mass: 314.1518 Molecular Weight: 314.381	
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:

Antrodin A, also known as AdA and Camphorataanhydride A, is one of the main active ingredients in the solid-state fermented *A. camphorata* mycelium. It protects the liver from alcohol damage by improving the antioxidant and anti-inflammatory capacity of the liver and maintaining the stability of the intestinal flora. Antrodin A alleviates acute alcoholic liver injury and modulates intestinal flora dysbiosis in mice. Antrodin A is a beneficial active ingredient to treat the microbiomic and metabolic disturbance induced by alcohol intake.

## 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
DMSO	100.0	318.09

## 4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	3.18 mL	15.90 mL	31.81 mL
5 mM	0.64 mL	3.18 mL	6.36 mL
10 mM	0.32 mL	1.59 mL	3.18 mL
50 mM	0.06 mL	0.32 mL	0.64 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. He YC, Lu ZH, Shi P, Hao JC, Zhao ZJ, Xie HT, Mao P, Chen SJ. Anti-herpes simplex virus activities of bioactive extracts from *Antrodia camphorata* mycelia. *Antivir Ther.* 2016;21(5):377-83. doi: 10.3851/IMP2988. Epub 2015 Aug 27. PMID: 26313544.

### In vivo study

1. Yi Z, Liu X, Liang L, Wang G, Xiong Z, Zhang H, Song X, Ai L, Xia Y. Antrodin A from *Antrodia camphorata* modulates the gut microbiome and liver metabolome in mice exposed to acute alcohol intake. *Food Funct.* 2021 Apr 7;12(7):2925-2937. doi: 10.1039/d0fo03345f. Epub 2021 Mar 15. PMID: 33720247.

2. Yi ZW, Xia YJ, Liu XF, Wang GQ, Xiong ZQ, Ai LZ. Antrodin A from mycelium of *Antrodia camphorata* alleviates acute alcoholic liver injury and modulates intestinal flora dysbiosis in mice. *J Ethnopharmacol.* 2020 May 23;254:112681. doi: 10.1016/j.jep.2020.112681. Epub 2020 Feb 19. PMID: 32087320.

## 7. Bioactivity

### Biological target:

Antrodin A is one of the main active ingredients in the solid-state fermented *A. camphorata* mycelium.

# Product data sheet



## In vitro activity

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Crude ethanol extracts and isolated constituents showed inhibition of HSV replication at a very low concentration. Fraction A and antrocin A showed viral inhibitory effect with reduction of viral cell-to-cell spread.

Reference: Antivir Ther. 2016;21(5):377-83. <https://pubmed.ncbi.nlm.nih.gov/26313544/>

## In vivo activity

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In acute alcoholic liver injury mice, AdA ameliorated alcoholic exposure-induced hepatic lipid deposition (TC and TG), oxidative stress (MDA), inflammation (TNF- $\alpha$ , IL-1 $\beta$ , IL-6, IL-17 and IFN- $\gamma$ ), and liver damage via modulating microbiome and metabolomic responses.

Reference: Food Funct. 2021 Apr 7;12(7):2925-2937. <https://pubmed.ncbi.nlm.nih.gov/33720247/>

*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.*