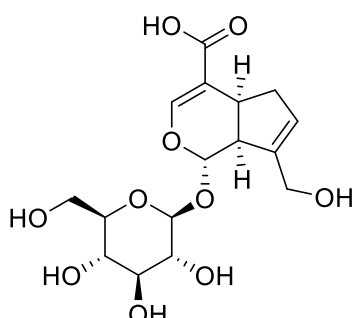


Product data sheet



MedKoo Cat#: 540155 Name: Geniposidic acid CAS: 27741-01-1 Chemical Formula: C ₁₆ H ₂₂ O ₁₀ Exact Mass: 374.1213 Molecular Weight: 374.342	
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:

Geniposidic acid is a biochemical that promotes collagen synthesis, increases osteoblast proliferation, and inhibits survival of *Kalotermes flavicollis* and *Crematogaster scutellaris*.

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
DMF	30.0	80.14
DMSO	48.67	130.01

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.67 mL	13.36 mL	26.71 mL
5 mM	0.53 mL	2.67 mL	5.34 mL
10 mM	0.27 mL	1.34 mL	2.67 mL
50 mM	0.05 mL	0.27 mL	0.53 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. Song M, Chen Z, Qiu R, Zhi T, Xie W, Zhou Y, Luo N, Fuqian Chen, Liu F, Shen C, Lin S, Zhang F, Gao Y, Liu C. Inhibition of NLRP3-mediated crosstalk between hepatocytes and liver macrophages by geniposidic acid alleviates cholestatic liver inflammatory injury. *Redox Biol.* 2022 Jul 14;55:102404. doi: 10.1016/j.redox.2022.102404. Epub ahead of print. PMID: 35868156; PMCID: PMC9304672.

In vivo study

1. Song M, Chen Z, Qiu R, Zhi T, Xie W, Zhou Y, Luo N, Fuqian Chen, Liu F, Shen C, Lin S, Zhang F, Gao Y, Liu C. Inhibition of NLRP3-mediated crosstalk between hepatocytes and liver macrophages by geniposidic acid alleviates cholestatic liver inflammatory injury. *Redox Biol.* 2022 Jul 14;55:102404. doi: 10.1016/j.redox.2022.102404. Epub ahead of print. PMID: 35868156; PMCID: PMC9304672.

2. Chen H, Gao X, Zhao W, Yu H, Wang N, Mi S. [Effect of geniposidic acid on SHP-LRH-1 signaling pathway in cholestasis rats]. *Zhong Nan Da Xue Xue Bao Yi Xue Ban.* 2019 Jun 28;44(6):605-613. Chinese. doi: 10.11817/j.issn.1672-7347.2019.06.001. PMID: 31304920.

7. Bioactivity

Biological target:

Product data sheet



Geniposidic acid is an effective anticancer and radioprotection agent.

In vitro activity

GPA pretreatment substantially attenuated LPS-induced NLRP3 expression at both the mRNA and protein levels (Fig. 2A and B and Fig. S2). Furthermore, the release of pro-inflammatory cytokines, including IL-1 β , IL-6, and TNF- α , was markedly blunted by GPA pretreatment prior to LPS stimulation (Fig. 2C).

Reference: Redox Biol. 2022 Jul 14;55:102404. <https://pubmed.ncbi.nlm.nih.gov/35868156/>

In vivo activity

The over-expression of LRH-1 in RPH can up-regulate the mRNA and protein levels of CYP7a1. GPA can improve the biochemical and liver pathology of ANIT-induced cholestasis rats, which may be related to the decrease of CYP7a1 by activating SHP through LRH-1 in RPH.

Reference: Zhong Nan Da Xue Xue Bao Yi Xue Ban. 2019 Jun 28;44(6):605-613. <https://pubmed.ncbi.nlm.nih.gov/31304920/>

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.