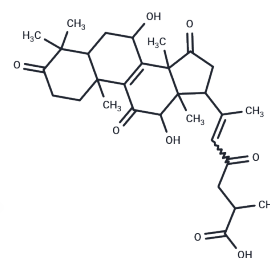


Ganoderenic acid E

Chemical Properties

CAS No. :	110241-23-1
Formula:	C ₃₀ H ₄₀ O ₈
Molecular Weight:	528.642
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	Ganoderenic acid E is a natural product
Targets(IC50)	Others
In vitro	The main active compounds of GLE were identified by HPLC, EI-MS and NMR, and the compounds related targets were predicted using docking program. To investigate the functions of GL holistically, the whole active components of GL and related targets were predicted based on four public databases. Subsequently, the compound-target network and component-target network were constructed respectively, and they were overlapped to detect the kernel potential targets in both networks. Furthermore, the qRT-PCR was used to validate the expression levels of target genes in GLE treated Hepa1-6-bearing C57 BL/6 mice. In our work, 12 active compounds of GLE were identified, including Ganoderic acid A, Ganoderenic acid A, Ganoderic acid B, Ganoderic acid H, Ganoderic acid C2, ganoderenic acid D, Ganoderic acid D, Ganoderenic acid G, Ganoderic acid Y, Kaemferol, Genistein and Ergosterol. Using the docking program, 20 targets were mapped to 12 compounds of GLE. Furthermore, 122 effective active components of GL and 116 targets were holistically predicted using public databases. Compare with the compound-target network and component-target network, 6 kernel targets were screened, including AR, CHRM2, ESR1, NR3C1, NR3C2 and PGR, which was considered as potential markers and might play important roles in the process of GLE treatment. GLE effectively inhibited tumor growth in Hepa1-6-bearing C57 BL/6 mice. Moreover, qRT-PCR data demonstrated the expression levels of NR3C1, NR3C2 and AR are up-regulated and PGR, ESR1 and CHRM2 are down-regulated.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8916 mL	9.4582 mL	18.9165 mL
5 mM	0.3783 mL	1.8916 mL	3.7833 mL
10 mM	0.1892 mL	0.9458 mL	1.8916 mL
50 mM	0.0378 mL	0.1892 mL	0.3783 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

Network pharmacology analysis of the anti-cancer pharmacological mechanisms of Ganoderma lucidum extract with experimental support using Hepa1-6-bearing C57 BL/6 mice. *Journal of ethnopharmacology*, 2017, 210:287.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481