

Ganoderic acid T-Q

Chemical Properties

CAS No.:	112430-66-7
Formula:	C ₃₂ H ₄₆ O ₅
Molecular Weight:	510.7
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Ganoderic acid T-Q and TR are two inhibitors of H5N1 and H1N1 NAs.
Targets(IC ₅₀)	H1N1: None H5N1: None
In vitro	Neuraminidase (NA) inhibitors are the dominant antiviral drugs for treating influenza in the clinic. Increasing prevalence of drug resistance makes the discovery of new NA inhibitors a high priority. METHODS AND RESULTS: Thirty-one triterpenoids from the medicinal mushroom <i>Ganoderma lingzhi</i> were analyzed in an in vitro NA inhibition assay, leading to the discovery of Ganoderic acid T-Q and TR as two inhibitors of H5N1 and H1N1 NAs. Structure-activity relationship studies revealed that the corresponding triterpenoid structure is a potential scaffold for the design of NA inhibitors. Using these triterpenoids as probes we found, through further in silico docking and interaction analysis, that interactions with the amino-acid residues Arg292 and/or Glu119 of NA are critical for the inhibition of H5N1 and H1N1. CONCLUSIONS: These findings should prove valuable for the design and development of NA inhibitors.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.958 mL	9.790 mL	19.581 mL
5 mM	0.392 mL	1.958 mL	3.916 mL
10 mM	0.196 mL	0.979 mL	1.958 mL
50 mM	0.039 mL	0.196 mL	0.392 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Inhibition of neuraminidase by *Ganoderma* triterpenoids and implications for neuraminidase inhibitor design. Scientific Reports, 2015, 5:13194.

Inhibitors · Natural Compounds · Compound Libraries

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