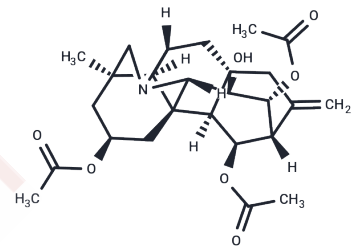


Guanfu base G

Chemical Properties

CAS No. :	78969-72-9
Formula:	C ₂₆ H ₃₃ N ₀ O ₇
Molecular Weight:	471.55
Storage:	Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Guanfu base G is an alkaloid isolated from Aconitum coreanum exhibiting antiarrhythmic activity by inhibiting HERG channel currents (IC ₅₀ =17.9 μM).
Targets(IC ₅₀)	Potassium Channel
In vitro	In HEK293 cells transfected with HERG complementary DNA, Guanfu base G inhibits HERG channel current in a concentration-, voltage-, and time-dependent manner and accelerates channel recovery from inactivation [2].
In vivo	Guanfu base A was detectable in rats 15 minutes after administration of Guanfu base G (5 mg/kg; intravenous injection; duration 5-1200 min). Approximately 10% of Guanfu base G was metabolized to Guanfu base A in vivo. The T _{1/2} of Guanfu base G in rats was 4.16 hours [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1207 mL	10.6033 mL	21.2067 mL
5 mM	0.4241 mL	2.1207 mL	4.2413 mL
10 mM	0.2121 mL	1.0603 mL	2.1207 mL
50 mM	0.0424 mL	0.2121 mL	0.4241 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

Zhang L, et al. Simultaneous determination of Guanfu base G and its active metabolites by UPLC-MS/MS in rat plasma and its application to a pharmacokinetic study. J Chromatogr B Analyt Technol Biomed Life Sci. 2014 Apr 15;957:1-6.

Huang X, et al. Comparative effects of Guanfu base A and Guanfu base G on HERG K⁺ channel. J Cardiovasc Pharmacol. 2012;59(1):77-83.

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