

Periglaucine B

Chemical Properties

CAS No.:	1025023-05-5
Formula:	C ₂₀ H ₂₃ NO ₆
Molecular Weight:	373.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Periglaucine B can inhibit hepatitis B virus (HBV) surface antigen (HBsAg) secretion in Hep G2.2.15 cells.
Targets(IC ₅₀)	HBV: None
In vitro	METHODS AND RESULTS: Four new hasubanane-type alkaloids, periglaucine A, Periglaucine B, periglaucine C, periglaucine D (1-4), and three known alkaloids, norruffscine (5), (-)-8-oxotetrahydropalmatine (6), and (-)-8-oxocanadine (7), were isolated from the aerial parts of <i>Pericampylus glaucus</i> . Their structures were elucidated on the basis of extensive NMR and EIMS data, and that of periglaucine A (1) was confirmed by single-crystal X-ray diffraction. CONCLUSIONS: Alkaloids 1-4 inhibited hepatitis B virus (HBV) surface antigen (HBsAg) secretion in Hep G2.2.15 cells. (-)-8-Oxotetrahydropalmatine (6) possessed a high selectivity index (SI = 22.4) for HBsAg secretion of the Hep G2.2.15 cell line with an IC ₅₀ value of 0.14 mM. Norruffscine (5) and (-)-8-oxotetrahydropalmatine (6) exhibited inhibitory activity against human immunodeficiency virus (HIV-1) with EC ₅₀ values of 10.9 and 14.1 microM in C8166 cells (SI = 45.7 and 18.8), respectively.

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	2.678 mL	13.390 mL	26.781 mL
5 mM	0.536 mL	2.678 mL	5.356 mL
10 mM	0.268 mL	1.339 mL	2.678 mL
50 mM	0.054 mL	0.268 mL	0.536 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

- Periglaucines A-D, anti-HBV and -HIV-1 alkaloids from *Pericampylus glaucus*. *J Nat Prod.* 2008 May;71(5):760-3.

Inhibitors · Natural Compounds · Compound Libraries

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