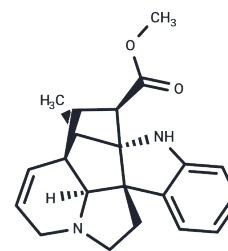


Vindolinine

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 5980-02-9 |
| Formula: | C ₂₁ H ₂₄ N ₂ O ₂ |
| Molecular Weight: | 336.435 |
| 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 | Vindolinine is a natural product from <i>Catharanthus roseus</i> (L.) G. Don. |
| Targets(IC50) | Others |
| In vitro | Vindogentianine, a new indole alkaloid together with six known alkaloids, vindoline, vindolidine, vindolicine, Vindolinine, pervine and serpentine were isolated from leaf extract (DA) of <i>Catharanthus roseus</i> (L.) G. Don. Their structures were elucidated by spectroscopic methods; NMR, MS, UV and IR. Vindogentianine is a dimer containing a vindoline moiety coupled to a gentianine moiety. After 24h incubation, vindogentianine exhibited no cytotoxic effect in C2C12 mouse myoblast and β -TC6 mouse pancreatic cells (IC ₅₀ >50 μ g/mL). Real-time cell proliferation monitoring also indicated vindogentianine had little or no effect on C2C12 mouse myoblast cell growth at the highest dose tested (200 μ g/mL), without inducing cell death. Vindogentianine exhibited potential hypoglycemic activity in β -TC6 and C2C12 cells by inducing higher glucose uptake and significant in vitro PTP-1B inhibition. However, in vitro α -amylase and α -glucosidase inhibition assay showed low inhibition under treatment of vindogentianine. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|-----------|
| 1 mM | 2.9723 mL | 14.8615 mL | 29.723 mL |
| 5 mM | 0.5945 mL | 2.9723 mL | 5.9446 mL |
| 10 mM | 0.2972 mL | 1.4861 mL | 2.9723 mL |
| 50 mM | 0.0594 mL | 0.2972 mL | 0.5945 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

Vindogentianine, a hypoglycemic alkaloid from *Catharanthus roseus* (L.) G. Don (Apocynaceae). *Fitoterapia*. 2015 Apr;102:182-8.

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