

Govaniadine

Chemical Properties

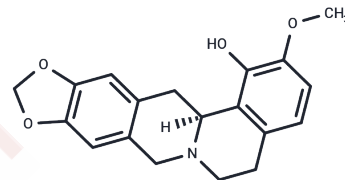
CAS No. :

Formula: C₁₉H₁₉NO₄

Molecular Weight: 325.36

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	Govaniadine is a natural potent inducer of apoptosis in MCF-7 cell lines.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0735 mL	15.3676 mL	30.7352 mL
5 mM	0.6147 mL	3.0735 mL	6.147 mL
10 mM	0.3074 mL	1.5368 mL	3.0735 mL
50 mM	0.0615 mL	0.3074 mL	0.6147 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

Horst B, Wanner MJ, Jorgensen SI, Hiemstra H, van Maarseveen JH. Total Synthesis of the Ortho-Hydroxylated Protoberberines (S)-Govaniadine, (S)-Caseamine and (S)-Clarkeanidine via a Solvent-directed Pictet-Spengler reaction. *J Org Chem*. 2018 Nov 19. doi: 10.1021/acs.joc.8b02378. [Epub ahead of print] PubMed PMID: 30451502; PubMed Central PMCID: PMC6328280.

Sivakumaran N, Samarakoon SR, Adhikari A, Ediriweera MK, Tennekoon KH, Malavige N, Thabrew I, Shrestha RLS. Cytotoxic and Apoptotic Effects of Govaniadine Isolated from *Corydalis govaniana* Wall. Roots on Human Breast Cancer (MCF-7) Cells. *Biomed Res Int*. 2018 Jul 24;2018:3171348. doi: 10.1155/2018/3171348. eCollection 2018. PubMed PMID: 30140694; PubMed Central PMCID: PMC6081593.

Marques LMM, Callejon DR, Pinto LG, de Campos ML, de Oliveira ARM, Vessecchi R, Adhikari A, Shrestha RLS, Peccinini RG, Lopes NP. Pharmacokinetic properties, in vitro metabolism and plasma protein binding of govaniadine an alkaloid isolated from *Corydalis govaniana* Wall. *J Pharm Biomed Anal*. 2016 Nov 30;131:464-472. doi: 10.1016/j.jpba.2016.09.003. Epub 2016 Sep 3. PubMed PMID: 27686399.

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