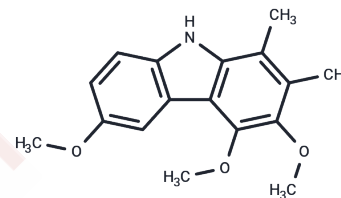


Carbazomycin D

Chemical Properties

CAS No. :	108073-63-8
Formula:	C ₁₇ H ₁₉ NO ₃
Molecular Weight:	285.34
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	Carbazomycin D is a bacterial metabolite that has been found in <i>Streptomyces</i> and has diverse biological activities. ^{1,2} It is active against the fungus <i>T. asteroides</i> and <i>T. mentagrophytes</i> (MIC = 100 µg/ml for both) and the bacterium <i>M. tuberculosis</i> (IC ₅₀ = 25 µg/ml). Carbazomycin D is cytotoxic to MCF-7, KB, NCI H187, and Vero cells (IC ₅₀ s = 21.3, 33.2, 12.9, and 34.3 µg/ml, respectively). ²
Targets (IC ₅₀)	Others, Antibacterial, Parasite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5046 mL	17.523 mL	35.0459 mL
5 mM	0.7009 mL	3.5046 mL	7.0092 mL
10 mM	0.3505 mL	1.7523 mL	3.5046 mL
50 mM	0.0701 mL	0.3505 mL	0.7009 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

- Naid, T., Kitahara, T., Kaneda, M., et al. Carbazomycins C, D, E and F, minor components of the carbazomycin complex. *Antibiot. (Tokyo)* 40(2)157-164(1987)
- Intaraudom, C., Rachtawee, P., Suvannakad, R., et al. Antimalarial and antituberculosis substances from *Streptomyces* sp. BCC26924. *Tetrahedron* 67(39)7593-7597(2011)

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