

Carbazomycin A

Chemical Properties

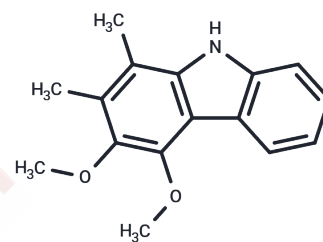
CAS No. : 75139-39-8

Formula: C₁₆H₁₇NO₂

Molecular Weight: 255.31

Appearance:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Carbazomycin A is a bacterial metabolite that has been found in <i>Streptomyces</i> and has diverse biological activities. ^{1,2} It is active against <i>S. aureus</i> , <i>T. asteroides</i> , and <i>T. mentagrophytes</i> (MIC = 12.5 µg/ml for all), as well as the plant pathogenic fungus <i>P. oryzae</i> (MIC = 25 µg/ml). Carbazomycin A is cytotoxic to MCF-7, KB, NCI H187, and Vero cells (IC ₅₀ s = 26.2, 30.1, 18.4, and 32.6 µg/ml, respectively). ²
Targets(IC ₅₀)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9168 mL	19.584 mL	39.1681 mL
5 mM	0.7834 mL	3.9168 mL	7.8336 mL
10 mM	0.3917 mL	1.9584 mL	3.9168 mL
50 mM	0.0783 mL	0.3917 mL	0.7834 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.

Reference

Sakano, K.-I., Ishimaru, K., and Nakamura, S. New antibiotics, carbazomycins A and B. I. Fermentation, extraction, purification and physico-chemical and biological properties] *Antibiot. (Tokyo)* 33(7)683-689(1980)
 Intaraudom, C., Rachtawee, P., Suvannakad, R., et al. Antimalarial and antituberculosis substances from *Streptomyces* sp. BCC26924 *Tetrahedron* 67(39)7593-7597(2011)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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