

Product Data Sheet

Product Name: Carbazomycin D

Cat. No.: GC48826

Chemical Properties

Cas. No. 108073-63-8

SMILES COC1=C(C)C(C)=C2NC3=CC=C(OC)C=C3C2=C1OC

Formula C₁₇H₁₉NO₃

M.Wt 285.3

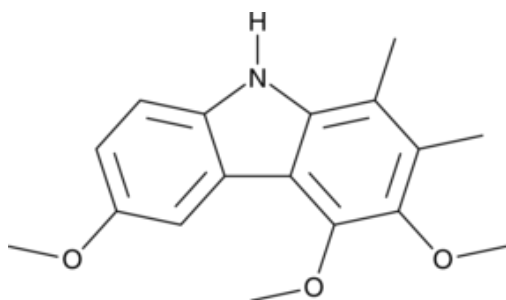
Solubility

Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Carbazomycin D is a bacterial metabolite that has been found in *Streptomyces* and has diverse biological activities.^{1,2} It is active against the fungi *T. asteroides* and *T. mentagrophytes* (MIC = 100 µg/ml for both) and the bacterium *M. tuberculosis* (IC₅₀ = 25 µg/ml). Carbazomycin D is cytotoxic to MCF-7, KB, NCI H187, and Vero cells (IC₅₀s = 21.3, 33.2, 12.9, and 34.3 µg/ml, respectively).²

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

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA