

Product Data Sheet

Product Name: PC-766B
 Cat. No.: GC11393

Chemical Properties

Cas. No. 108375-77-5

Chemical Name 16-[(1S,2R,3S)-3-[(2R,4R,5S,6R)-4-[(2,6-dideoxy-β-D-arabino-hexopyranosyl)oxy]tetrahydro-2-hydroxy-5-methyl-6-[(1E,3E)-1,3-pentadien-1-yl]-2H-pyran-2-yl]-2-hydroxy-1-methylbutyl]-8-hydroxy-3,15-dimethoxy-5,7,9,11-tetramethyl-(3Z,5E,7R,8S,9S,11E,13E,15S,16

SMILES O=C1O[C@H]([C@@H](C)[C@@H](O)[C@@H]([C@@]2(O)C[C@@H](O[C@H]3C[C@H]([C@@H]([C@@H](C)O3)O)O)[C@H](C)[C@@H](/C=C/C=C/C)O2)C)[C@@H](OC)/C=C/C=C(C)/C[C@H](C)[C@H](O)[C@H](C)/C=C(C)/C=C1\OC

Formula C₄₃H₆₈O₁₂ M.Wt 777.0

Solubility DMF: Soluble, DMSO: Soluble, Ethanol: Soluble, Methanol: Soluble Storage Store at -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

PC-766B is a macrolide antibiotic existed in an actinomycete strain SC-4710.

PC-766B was active against Gram-positive bacteria, and some fungi and yeasts, yet inactive against Gram-negative bacteria. PC-766B exhibited potent cytotoxicity against murine tumor cell lines in vitro. The IC₅₀ values against P388 leukemia and B16 melanoma were 0.1 and 0.5 ng/ml, respectively [1]. Intraperitoneal administration of PC-766B (0.25mg/kg/day) showed in vivo antitumor activity against P388 leukemia. PC-766B showed a weak inhibitory activity against Na⁺, K⁺-ATPase [1].

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

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Reference:

[1] KUMAGAI K, TAYA K, FUKUI A, et al. PC-766B, A NEW MACROLIDE ANTIBIOTIC PRODUCED BY *Nocardia brasiliensis*[J]. The Journal of antibiotics, 1993, 46(6): 972-978.

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