

Product Data Sheet

Product Name: Rifapentine-d9

Cat. No.: GC48050

Chemical Properties

Cas. No. 61379-65-5

SMILES OC1=C2C(C(O)=C(C)C(O[C@]3(C)O/C=C/[C@H](OC)[C@@H](C)[C@]([C@H](C)[C@H](O)[C@H](C)[C@@H](O)[C@@H](C)/C=C/C=C(C)\C(N4)=O)(OC(C)=O)[H])=C2C3=O)=C(O)C4=C1/C=N/N5CCN(C6([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C6([2H])[2H])CC5

Formula C47H55D9N4O12

M.Wt 886.1

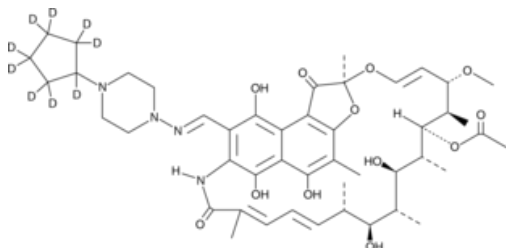
Solubility DMSO : ≥ 50 mg/mL (57.01 mM);
H₂O : < 0.1 mg/mL (insoluble)

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

Rifapentine-d₉ is intended for use as an internal standard for the quantification of rifapentine by GC- or LC-MS. Rifapentine is a long-lasting rifamycin antibiotic that inhibits DNA-dependent RNA polymerases and is effective against *Mycobacterium* species, including *M. tuberculosis*, as well as experimental infections caused by *S. aureus*, *S. pyogenes* group A, *S. pneumoniae*, and *K. pneumoniae*.^{1,2}

1. Arioli, V., Berti, M., Carniti, G., et al. Antibacterial activity of DL 473, a new semisynthetic rifamycin

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

Product Data Sheet

derivative J. Antibiot. (Tokyo) 34(8):1026-1032 (1981) 2. Sharma, S.K., Sharma, A., Kadiravan, T., et al. Rifamycins (rifampicin, rifabutin and rifapentine) compared to isoniazid for preventing tuberculosis in HIV-negative people at risk of active TB. Cochrane Database Syst. Rev. 7CD007545 (2013)

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