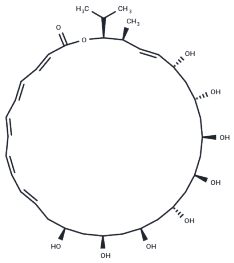
Data Sheet (Cat.No.T20686)

RK 397

Chemical Properties



CAS No. : 154396-73-3

Formula: C35H56O10

Molecular Weight: 636.81

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	RK 397 is an antibiotic of oxopentaene macrolide.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5703 mL	7.8516 mL	15.7033 mL
5 mM	0.3141 mL	1.5703 mL	3.1407 mL
10 mM	0.157 mL	0.7852 mL	1.5703 mL
50 mM	0.0314 mL	0.157 mL	0.3141 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

Burova SA, McDonald FE. Total synthesis of the polyene-polyol macrolide RK-397, featuring cross-couplings of alkynylepoxide modules. J Am Chem Soc. 2004 Mar 3;126(8):2495-500. PubMed PMID: 14982459.

Kobinata K, Koshino H, Kudo T, Isono K, Osada H. RK-397, a new oxo pentaene antibiotic. J Antibiot (Tokyo). 1993 Oct;46(10):1616-8. PubMed PMID: 8244892.

Denmark SE, Fujimori S. Total synthesis of RK-397. J Am Chem Soc. 2005 Jun 29;127(25):8971-3. PubMed PMID: 15969572.

Guo H, Mortensen MS, O'Doherty GA. Formal total synthesis of RK-397 via an asymmetric hydration and iterative allylation strategy. Org Lett. 2008 Jul 17;10(14):3149-52. doi: 10.1021/ol801055b. Epub 2008 Jun 13. PubMed PMID: 18549226.

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