

Racemomycin B

Chemical Properties

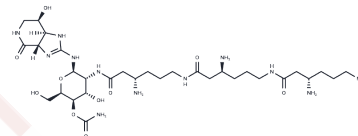
CAS No. : 3776-37-2

Formula: C₃₁H₅₈N₁₂O₁₀

Molecular Weight: 758.87

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	Racemomycin B is a beta-lysine-rich streptothricin antibiotic.
Targets(IC50)	Others,Antibacterial

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3177 mL	6.5887 mL	13.1775 mL
5 mM	0.2635 mL	1.3177 mL	2.6355 mL
10 mM	0.1318 mL	0.6589 mL	1.3177 mL
50 mM	0.0264 mL	0.1318 mL	0.2635 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

- TANIYAMA H, MIYOSHI F, KAGEYAMA K. [Chemical studies on antibiotics produced by actinomycetes. XI. Racemomycin. (8). On racemomycin A, B, and C]. *Yakugaku Zasshi*. 1962 Jan;82:87-91. Japanese. PubMed PMID: 13919568.
- Inamori Y, Amino H, Tsuboi M, Yamaguchi S, Tsujibo H. Biological activities of racemomycin-B, beta-lysine rich streptothricin antibiotic, the main component of *Streptomyces lavendulae* OP-2. *Chem Pharm Bull (Tokyo)*. 1990 Aug;38(8):2296-8. PubMed PMID: 2177682.
- Inamori Y, Kato Y, Kubo M, Nakanishi J, Nakashima M, Gemba M. The effect of racemomycin-D, a nephrotoxic antibiotic, on cellular metabolism of rat kidney cortex in vitro. *Jpn J Pharmacol*. 1984 Aug;35(4):397-401. PubMed PMID: 6094897.
- Hisamoto M, Inaoka Y, Sakaida Y, Kagazaki T, Enokida R, Okazaki T, Haruyama H, Kinoshita T, Matsuda K. A-53930A and B, novel N-type Ca²⁺ channel blockers. *J Antibiot (Tokyo)*. 1998 Jul;51(7):607-17. PubMed PMID: 9727385.

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