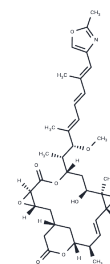


Rhizoxin

Chemical Properties

CAS No. :	90996-54-6
Formula:	C ₃₅ H ₄₇ N ₉ O
Molecular Weight:	625.75
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	Rhizoxin is an antitumor drug isolated from the fungus <i>Rhizopus chinensis</i> . It is a macrocyclic lactone compound that binds to tubulin and inhibits microtubule assembly.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5981 mL	7.9904 mL	15.9808 mL
5 mM	0.3196 mL	1.5981 mL	3.1962 mL
10 mM	0.1598 mL	0.799 mL	1.5981 mL
50 mM	0.032 mL	0.1598 mL	0.3196 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

Takeuchi K, Noda N, Katayose Y, Mukai Y, Numa H, Yamada K, Someya N. Rhizoxin analogs contribute to the biocontrol activity of a newly isolated pseudomonas strain. *Mol Plant Microbe Interact*. 2015 Mar;28(3):333-42. doi: 10.1094/MPMI-09-14-0294-FI. PubMed PMID: 25496595.

McLeod HL, Murray LS, Wanders J, Setanoians A, Graham MA, Pavlidis N, Heinrich B, ten Bokkel Huinink WW, Wagener DJ, Aamdal S, Verweij J. Multicentre phase II pharmacological evaluation of rhizoxin. Eortc early clinical studies (ECSG)/pharmacology and molecular mechanisms (PAMM) groups. *Br J Cancer*. 1996 Dec;74(12):1944-8. PubMed PMID: 8980394; PubMed Central PMCID: PMC2074819.

Kusebauch B, Brendel N, Kirchner H, Dahse HM, Hertweck C. Assessing oxazole bioisosteres as mutasynthons on the rhizoxin assembly line. *Chembiochem*. 2011 Oct 17;12(15):2284-8. PubMed PMID: 23106078.

Takahashi M, Iwasaki S, Kobayashi H, Okuda S, Murai T, Sato Y. Rhizoxin binding to tubulin at the maytansine-binding site. *Biochim Biophys Acta*. 1987 Dec 7;926(3):215-23. PubMed PMID: 3120782.

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