For Research Use Only Cytochalasin B



Catalog Number: CM13243

产品信息	Catalog Number: CM13243 CAS号: 14930-96-2 分子式: C ₂₉ H ₃₇ NO ₅ 主要靶点: Arp2/3 Complex 主要通路: 细胞骨架	分子量: 479.617 溶解度: DMSO:20 mg/mL (41.7 mM)
靶点活性	F-actin (Mg2+):2.2 nM (Kd) F-actin (Mg2+/K+	:1.4 nM (Kd)
体外活性	Cytochalasin B is a cell-permeable mycotox shortening of actin filaments, with Kds of 2.2 KCl, respectively [1]. Cytochalasin B (6 μ M) intensely breaking of myofibrillar proteins i filaments. In addition, Cytochalasin B accele and significantly increasing G-actin bands du effect on multiple murine cancer cell lines, v μ M (P388/S) and IC80s of 12.23 μ M (M109c 3 h, with IC50s of 0.25 μ M (M109c), 0.37 μ M after treatment for 4 days [3].	in binding to the barbed end of actin filaments, inhibits the enlongation and nM and 1.4 nM for F-actin in the presence of MgCl2 (2 mM) or MgCl2 (2 mM) plus increases the myofibrillar fragmentation index, which is attributed to the nto short segments. Cytochalasin B also accelerates the disruption of actin rates the transformation from F-actin to G-actin, lowering the content of F-actin jring postmortem conditioning [2]. Cytochalasin B (0.1-10 μ M) (P388/ADR), 51.9), 44.86 μ M (B16BL6), 188.4 μ M (P388/ADR), 84.1 μ M (P388/S) after treatment for (B16F10), 0.87 μ M (B16BL6), and IC80s of 0.75 μ M (M109c), 1.21 μ M (B16F10)
体内活性	Cytochalasin B (10, 25, 50 mg/kg, i.p.) dose-c leukemias. Cytochalasin B at 50 mg/kg prod % long-term survival in the drug-sensitive P	lependently increases the life expectancy of Balb/c mice bearing with P388/ADR uces 10 % long-term survival in the multidrug-resistant P388/ADR cohort, and 40 388/S cohort [3].
动物实验	For chemotherapy testing, Balb/c mice blue negative P388/S or P388/ADR cell in order to determine the lethality of t survival is defined as challenged mice and D are prepared in suspension form intraperitoneal (i.p.) administration. Th mice on Days 1-8 following the initial o	under isoflurane anesthesia are challenged with $2?*?10^5$ trypan s subcutaneously (s.c.) in a volume of 200 μ L. Untreated mice are kept he challenge without chemotherapeutic intervention. Long-term that survive the duration of the observation period. Cytochalasins B in 2 % carboxymethyl cellulose 1 % tween 20 (CMC/Tw) for e congeners or the vehicle are administered to leukemia-challenged shallenge [2].
细胞实验	The attached cell lines M109c, B16BL6, 24-well culture plates 1 day prior to tri is seeded at 5?*710^4 cells/mL and all treated with Cytochalasin B for 3 h, as days, attached cells are trypsinized and counted with a Coulter Counter. In the medium, then trypsinized (except for I time they are counted. Growth results density compared to the untreated con [3].	and B16F10 are seeded at 1 to 4?×?10 ^A cells/mL in 2 mL volumes in eatment with Cytochalasin B. The suspension culture of P388/ADR cells owed to grow overnight before Cytochalasin B treatment. Cells are vell as 2, 3, or 4 days. In the case of continuous exposure for 2, 3, or 4 d counted with a hemacytometer. Leukemia cell suspensions are case of short-term exposure, cells are washed twice with fresh '388/ADR cells), reseeded, and allowed to regrow for 3 days, at which are calculated as the number of cells generated above the seeding ntrol cells and graphically presented as a percent of control increase
描述	Cytochalasin B is a mycotoxin binding to the 1.4-2.2 nM for F-actin).	barbed end of actin filaments. It can disrupt the formation of actin polymers (Kd:
储存	Powder: -20°C for 3 years In solvent: -	80°C for 1 year