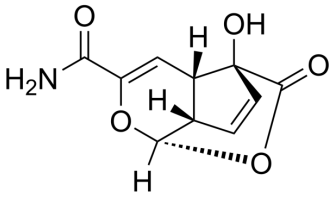
Echinosporin

Cat. No.:	HY-113799
CAS No.:	79127-35-8
Molecular Formula:	$C_{10}H_9NO_5$
Molecular Weight:	223.18
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Echinosporin (XK-213) is an antibiotic. Echinosporin can be isolated from Amycolatopsis strain. Echinosporin has antifungal activity and antitumor activity[1][2].
IC_{50} & Target	MIC50: 64 μg/mL (Fusarium oxysporum); 64 μg/mL (Fusarium solani); 32 μg/mL (Alternaria panax); 64 μg/mL (Phoma herbarum)[2].
In Vitro	Echinosporin (XK-213) exhibits weak antibacterial activities against Gram-positive and -negative microorganisms and its shows antitumor activity[1]. Echinosporin exhibits antifungal activity against root-rot pathogens of Panax notoginseng include Fusarium oxysporum, Fusarium solani, Alternaria panax, and Phoma herbarum with the MIC_{50} value at 64, 64, 32, and 64 μg/mL, respectively[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. T Sato, et al. A new antibiotic echinosporin (XK-213) - producing organism, isolation and characterization. J Antibiot (Tokyo). 1982 Mar;35(3):266-71.

[2]. Xindong Xu, et al. Echinosporin antibiotics isolated from Amycolatopsis strain and their antifungal activity against root-rot pathogens of the Panax notoginseng. Folia Microbiol (Praha). 2019 Mar;64(2):171-175.

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