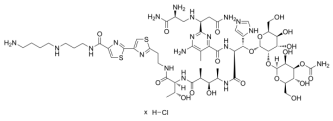
Bleomycin A5 hydrochloride

Cat. No.:	HY-125918
CAS No.:	55658-47-4
Molecular Formula:	$C_{57}H_{90}ClN_{19}O_{21}S_2$
Molecular Weight:	1477.02
Target:	Antibiotic; Apoptosis
Pathway:	Anti-infection; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Bleomycin A5 (Pingyangmycin) hydrochloride is an anti-neoplastic glycoprotein antibiotic. Bleomycin A5 suppresses Drp1-mediated mitochondrial fission and induces apoptosis in human nasal polyp-derived fibroblasts. Bleomycin A5 hydrochloride has anticancer activities relying on its ability to produce RNA and DNA breaks, thus, leading to cell death[1][2][3][4].

REFERENCES

[1]. Yang LC, et al. MEK inhibition enhances bleomycin A5-induced apoptosis in an oral cancer cell line: signaling mechanisms and therapeutic opportunities. J Oral Pathol Med. 2004;33(1):37-45.

[2]. Wu F, et al. Bleomycin A5 suppresses Drp1 mediated mitochondrial fission and induces apoptosis in human nasal polyp derived fibroblasts. Int J Mol Med. 2021;47(1):346-360.

[3]. Pan JB, et al. Rolipram attenuates bleomycin A5-induced pulmonary fibrosis in rats. Respirology. 2009;14(7):975-982.

[4]. He Y, et al. Pingyangmycin and Bleomycin Share the Same Cytotoxicity Pathway. Molecules. 2016;21(7):862. Published 2016 Jun 30.

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