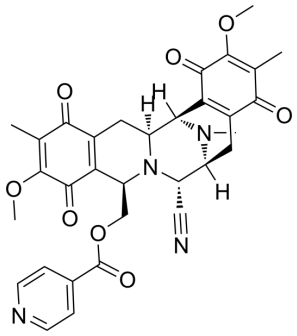
22-(4′-py)-JA

Cat. No.:	HY-155721
CAS No.:	1178895-15-2
Molecular Formula:	$C_{32}H_{30}N_4O_8$
Molecular Weight:	598.6
Target:	Akt; mTOR
Pathway:	PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	22-(4′-py)-JA is a semisynthetic derivative of junamycin A (JA) that can be isolated from the Thai blue sponge (Xestospongia sp.). 22-(4′-py)-JA has antimetastatic activity and can inhibit AKT/mTOR/p70S6K signaling. 22-(4′-py)-JA inhibits tumor cell invasion and tube formation in human umbilical vein endothelial cells (HUVEC), downregulates metalloproteinases (MMP-2 and MMP-9), hypoxia-inducible factor 1α (HIF-1α) and vascular endothelial growth factor (VEGF). 22-(4′-py)-JA has potent anticancer activity against non-small cell lung cancer (NSCLC)[1].
In Vivo	22-(4′-py)-JA MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Iksen I, et al. Preclinical Characterization of 22-(4'-Pyridinecarbonyl) Jorunnamycin A against Lung Cancer Cell Invasion and Angiogenesis via AKT/mTOR Signaling. ACS Pharmacol Transl Sci. 2023 Jul 25;6(8):1143-1154.

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