FAK-IN-4

Cat. No.:HCAS No.:3Molecular Formula:CMolecular Weight:3Target:FPathway:PStorage:PA	HY-146065 032200-62-4 C ₂₀ H ₂₂ N ₄ O 34.41 FAK; Apoptosis Protein Tyrosine Kinase/RTK; Apoptosis Please store the product under the recommended conditions in the Certificate of analysis.	
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Product Data Sheet

BIOLOGICAL ACTIVITY FAK-IN-4 (Compound 7d) is potential FAK inhibitor with anticancer activities. FAK-IN-4 induces cell apoptosis^[1]. Description In Vitro FAK-IN-4 (Compound 7d) (0-200 µM, 72 h) shows antiproliferative activity against triple-negative breast cancer (TNBC) cells [1] FAK-IN-4 (0-20 µM, 24 h) inhibits cell invasion and migration of MDA-MB-231 cells^[1]. FAK-IN-4 (0-20 µM, 72 h) causes dose-dependent Y925 dephosphorylation of FAK, and induces apoptosis in MDA-MB-231 cells [1] FAK-IN-4 inhibits the formation of focal adhesions (FAs) and stress fibers (SFs) in MDA-MB-231 cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay^[1] Cell Line: MDA-MB-231, MDA-MB-157, MDA-MB-453 and MCF10A Concentration: 0.78, 1.56, 3.13, 5, 6.25, 100, 12.5, 25, 50, 100 and 200 μM Incubation Time: 72 h Result: Inhibited the growth of TNBC cells with IC_{50} values of 8.37, 12.09, 9.07 and 40.63 μM against MDA-MB-231, MDA-MB-157, MDA-MB-453 and MCF10A cells. Cell Invasion Assay^[1] Cell Line: MDA-MB-231 Concentration: 5, 10 and 20 µM Incubation Time: 24 h Result: Significantly inhibited the invasion of MDA-MB-231 cells in a dose-dependent manner. Western Blot Analysis^[1] Cell Line: MDA-MB-231 Concentration: 5, 10 and 20 µM

Incubation Time:	72 h
Result:	Caused an obvious dose-dependent Y925 dephosphorylation of FAK.
Apoptosis Analysis ^[1]	
Cell Line:	MDA-MB-231
Concentration:	5, 10 and 20 μM
Incubation Time:	72 h
Result:	Increased the percentage of apoptotic MDA-MB-231 cells ranging from 13.10% to 4 in a dose-dependent manner.

REFERENCES

[1]. Fei Yang, et al. Discovery of novel chloropyramine-cinnamic acid hybrids as potential FAK inhibitors for intervention of metastatic triple-negative breast cancer. Bioorg Med Chem. 2022 Jul 15;66:116809.

Caution: Product has not been fully validated for medical applications. For research use only.

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