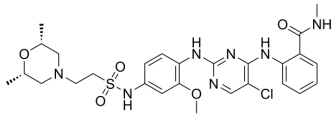
FAK-IN-20

Cat. No.:	HY-161358
CAS No.:	3004967-41-0
Molecular Formula:	$C_{27}H_{34}ClN_7O_5S$
Molecular Weight:	604.12
Target:	FAK; Apoptosis
Pathway:	Protein Tyrosine Kinase/RTK; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	FAK-IN-20 (Compound 7b) is an inhibitor of FAK with an IC_{50} value of 0.27 nM. FAK-IN-20 exhibits anticancer activity. It can arrest the cell cycle in the G2/M phase and induce cell apoptosis (apoptosis) by generating ROS[1].
IC_{50} & Target	IC50: 0.27 nM (FAK)[1].
In Vitro	FAK-IN-20 (Compound 7b) (72 h) can inhibit cell proliferation in human tumor cell lines such as HCT116 (colon cancer), A549 (lung cancer), MDA-MB-231 (breast cancer), and HeLa (cervical cancer) with IC_{50} values of 0.58, 0.75, 1.18, and 1.4 μM, respectively, demonstrating anticancer activity[1]. FAK-IN-20 (0.2-2 μM; 24 h) arrests the cell cycle in the G2/M phase in HCT116 cells and (0.2-25 μM; 12 h) induces apoptosis by (1-125 μM; 12 h) triggering ROS production[1]. FAK-IN-20 (1 μM; 24 h) inhibits cell migration in HCT116 cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Li R, et al. Discovery of 2,4-diarylaminopyrimidine derivatives bearing sulfonamide moiety as novel FAK inhibitors. Bioorg Chem. 2024;144:107134.

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