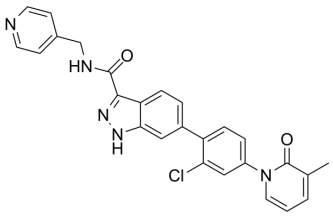
PAK1-IN-1

Cat. No.:	HY-146681
CAS No.:	2485732-30-5
Molecular Formula:	$C_{26}H_{20}ClN_5O_2$
Molecular Weight:	469.92
Target:	PAK
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

PAK1-IN-1 is a potent and selective PAK1 inhibitor with an IC_{50} of 9.8 nM. PAK1-IN-1 inhibits the migration and invasion of PAK1-related tumour cells in a dose-dependent manner[1].

IC_{50} & Target

PAK1	PAK4
9.8 nM (IC_{50})	>10 μM (IC_{50})

In Vitro

PAK1-IN-1 (compound 30l) (0-10 μM) shows selectivity with IC_{50}s of 0.01, >10 μM for PAK1 and PAK4, respectively[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, HCT-116 cells
Concentration:	1 μM
Incubation Time:	72 h
Result:	Showed antiproliferative activity against MDA-MB-231and HCT-116 cells with inhibition of 6.31% and 8.73%, respectively.

Western Blot Analysis[1]

Cell Line:	MDA-MB-231 cells
Concentration:	2.5, 5, 10, 20 μM
Incubation Time:	1, 24 h
Result:	Decreased the expression of activated PAK1 (PAKp-Ser144) and Snail in a dose-dependent manner.

REFERENCES

[1]. Zhang M, et al. Design and synthesis of 1H-indazole-3-carboxamide derivatives as potent and selective PAK1 inhibitors with anti-tumour migration and invasion

activities. Eur J Med Chem. 2020 Oct 1;203:112517.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA