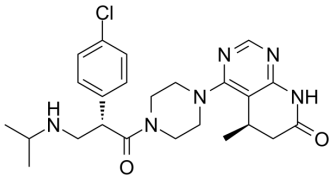
AKT-IN-13

Cat. No.:	HY-147937
CAS No.:	2459489-51-9
Molecular Formula:	$C_{24}H_{31}ClN_6O_2$
Molecular Weight:	470.99
Target:	Akt
Pathway:	PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AKT-IN-13 (compound 4b) is a potent Akt inhibitor with IC_{50}s of 1.6 nM, 2.4 nM and 0.3 nM for Akt1, Akt2 and Akt3, respectively. AKT-IN-13 can be used for researching anticancer[1].		
IC_{50} & Target	Akt1 1.6 nM (IC_{50})	Akt2 2.4 nM (IC_{50})	Akt3 0.3 nM (IC_{50})
In Vitro	AKT-IN-13 (compound 4b) displays good potency in the LNCap cell line with an IC_{50} value of 103 nM and a high free fraction with 51.3% human plasma protein binding (PPB)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Ma C, et al. Discovery of Clinical Candidate NTQ1062 as a Potent and Bioavailable Akt Inhibitor for the Treatment of Human Tumors. J Med Chem. 2022 Jun 23;65(12):8144-8168.

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