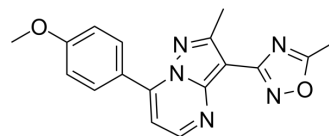


## Multi-kinase-IN-6

<b>Cat. No.:</b>	HY-156470
<b>CAS No.:</b>	3009081-73-3
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>15</sub> N <sub>5</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	321.33
<b>Target:</b>	Trk Receptor; Anaplastic lymphoma kinase (ALK); c-Kit; EGFR; Pim; Casein Kinase; Checkpoint Kinase (Chk); CDK; Apoptosis
<b>Pathway:</b>	Neuronal Signaling; Protein Tyrosine Kinase/RTK; JAK/STAT Signaling; Cell Cycle/DNA Damage; Stem Cell/Wnt; Apoptosis
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Multi-kinase-IN-6 (compound 10e) is a multikinase inhibitor that shows good enzyme inhibitory activity against TrkA, ALK2, c-KIT, EGFR, PIM1, CK2 $\alpha$ , CHK1, and CDK2. Multi-kinase-IN-6 reveals antiproliferative activity against MCF7, HCT116 and EKVX with IC <sub>50</sub> values of 3.36 $\mu$ M, 1.40 $\mu$ M and 3.49 $\mu$ M, respectively. Multi-kinase-IN-6 shows cell cycle arrest at the G1/S phase and G1 phase in MCF7 and HCT116 cells with good apoptotic effect <sup>[1]</sup> .			
<b>IC<sub>50</sub> &amp; Target</b>	TrkA 0.33 $\mu$ M (IC <sub>50</sub> )	CDK2 0.71 $\mu$ M (IC <sub>50</sub> )	CK2 0.09 $\mu$ M (IC <sub>50</sub> )	PIM1 0.42 $\mu$ M (IC <sub>50</sub> )
	Chk1 0.15 $\mu$ M (IC <sub>50</sub> )	EGFR 0.1 $\mu$ M (IC <sub>50</sub> )	c-KIT 0.05 $\mu$ M (IC <sub>50</sub> )	ALK2 0.03 $\mu$ M (IC <sub>50</sub> )
	RET 0.53 $\mu$ M (IC <sub>50</sub> )	FLT3 0.34 $\mu$ M (IC <sub>50</sub> )	ROS1 0.75 $\mu$ M (IC <sub>50</sub> )	

### REFERENCES

[1]. Mustafa A. Al-Qadhi, et al. Design and synthesis of certain 7-Aryl-2-Methyl-3-Substituted Pyrazolo[1,5-a]Pyrimidines as multikinase inhibitors. European Journal of Medicinal Chemistry. Volume 262, 15 December 2023, 115918.

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

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