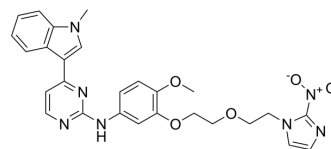


## Antiproliferative agent-34

Cat. No.:	HY-155178
CAS No.:	2910858-34-1
Molecular Formula:	C <sub>27</sub> H <sub>27</sub> N <sub>7</sub> O <sub>5</sub>
Molecular Weight:	529.55
Target:	EGFR
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Antiproliferative agent-34 (Compound A14) is a multi-target kinase inhibitor, with an IC <sub>50</sub> of 177 nM and 1567 nM for EGFR L858R/T790M and EGFR WT. Antiproliferative agent-34 also inhibits JAK2, ROS1, FLT3, FLT4, PDGFRα with IC <sub>50</sub> of 30.93, 106.90, 108.00, 226.60, 42.53 nM. Antiproliferative agent-34 inhibits H1975 and HCC827 cells proliferation with IC <sub>50</sub> values below 40 nM under normoxic condition, and the anti-proliferation potency achieves 4–6-fold improvement (IC <sub>50</sub> values < 10 nM) under hypoxic condition <sup>[1]</sup> .
IC <sub>50</sub> & Target	177, 30.93, 106.90, 108.00, 226.60, 42.53 nM for EGFR L858R/T790M, JAK2, ROS1, FLT3, FLT4, PDGFRα respectively <sup>[1]</sup>

### REFERENCES

[1]. Jia T, et al. Discovery of novel hypoxia-activated, nitroimidazole constructed multi-target kinase inhibitors on the basis of AZD9291 for the treatment of human lung cancer. *Bioorg Med Chem.* 2023 Aug 15;91:117384.

**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