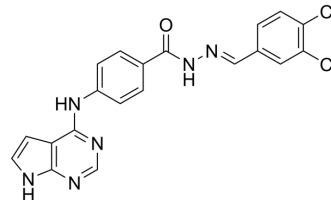


## Multi-target kinase inhibitor 2

Cat. No.:	HY-149636
Molecular Formula:	C <sub>20</sub> H <sub>14</sub> Cl <sub>2</sub> N <sub>6</sub> O
Molecular Weight:	425.27
Target:	EGFR; CDK; VEGFR
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Multi-target kinase inhibitor 2 (compound 5K) is a multi-targeted kinase inhibitor, and exhibits activity against EGFR, Her2, VEGFR2, and CDK2 enzymes, with IC<sub>50</sub> values ranging from 40 to 204 nM. Multi-target kinase inhibitor 2 shows cytotoxic effects were observed against HepG2, HeLa, MDA-MB-231 and MCF-7, with IC<sub>50</sub> of 41, 57, 51 and 59 μM. Multi-target kinase inhibitor 2 induces cell cycle arrest and apoptosis in HepG2 cells.

### REFERENCES

[1]. Alotaibi AA, et al. Discovery of New Pyrrolo[2,3-d]pyrimidine Derivatives as Potential Multi-Targeted Kinase Inhibitors and Apoptosis Inducers. *Pharmaceuticals (Basel)*. 2023;16(9):1324. Published 2023 Sep 19.

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

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