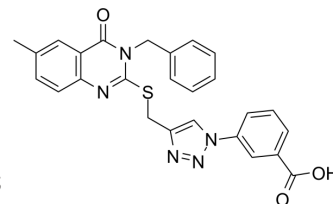


## HSP90-IN-13

<b>Cat. No.:</b>	HY-146228
<b>CAS No.:</b>	2446055-29-2
<b>Molecular Formula:</b>	C <sub>26</sub> H <sub>21</sub> N <sub>5</sub> O <sub>3</sub> S
<b>Molecular Weight:</b>	483.54
<b>Target:</b>	HSP; Apoptosis; Topoisomerase; EGFR; VEGFR
<b>Pathway:</b>	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Apoptosis; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	HSP90-IN-13 (compound 5k) is a highly potent HSP90 pan inhibitor with an IC <sub>50</sub> value of 25.07 nM. HSP90-IN-13 has multi-target activity against EGFR, VEGFR-2 and Topoisomerase-2. HSP90-IN-13 causes cell cycle arrest at G2/M phase and induces apoptosis of MCF-7 cells through mitochondrial-mediated pathway <sup>[1]</sup> .			
<b>IC<sub>50</sub> &amp; Target</b>	HSP90 25.07 nM (IC <sub>50</sub> )	Topoisomerase-2 25.85 nM (IC <sub>50</sub> )	EGFR 38.5 nM (IC <sub>50</sub> )	VEGFR-2 126.95 nM (IC <sub>50</sub> )
<b>In Vitro</b>	<p>HSP90-IN-13 (compound 5k) arrests the cell cycle on MCF-7 at a G2/M phase by 35.06% and induced apoptosis by 19.82%<sup>[1]</sup>. HSP90-IN-13 has anti-proliferative activity against HCT-116, Hela and MCF-7 cell lines with IC<sub>50</sub>s of 4.47 μM, 7.55 μM and 4.04 μM, respectively<sup>[1]</sup>.</p> <p>HSP90-IN-13 has potent multi-target inhibitory activities against EGFR, VEGFR-2 and Topoisomerase-2 with IC<sub>50</sub> values of 38.5 nM, 126.95 nM and 25.85 nM, respectively<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>			

### REFERENCES

[1]. El-Shafey HW, et al. Synthetic approaches, anticancer potential, HSP90 inhibition, multitarget evaluation, molecular modeling and apoptosis mechanistic study of thioquinazolinone skeleton: Promising antibreast cancer agent. Bioorg Chem. 2020 Aug;101:103987.

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

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