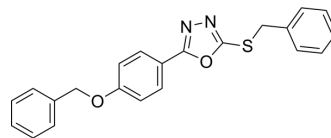


## Antiproliferative agent-49

Cat. No.:	HY-158016
Molecular Formula:	C <sub>22</sub> H <sub>18</sub> N <sub>2</sub> O <sub>2</sub> S
Molecular Weight:	374.46
Target:	EGFR; Apoptosis
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Antiproliferative agent-49 (Compound 5a) is a EGFR-TK inhibitor with an IC <sub>50</sub> of 0.09 μM. Antiproliferative agent-49 is a anti-proliferative agent. Antiproliferative agent-49 displays good activities against HER3 and HER4 with IC <sub>50</sub> values 0.18 and 0.37 μM. Antiproliferative agent-49 induces mitochondrial apoptotic pathway and increased accumulation of ROS <sup>[1]</sup> .
<b>In Vitro</b>	Antiproliferative agent-49 (0.09 μM, 24 h) arrests the HepG-2 cell cycle in the G1/S phase <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Serag MI, et al. New oxadiazole and pyrazoline derivatives as anti-proliferative agents targeting EGFR-TK: design, synthesis, biological evaluation and molecular docking study. *Sci Rep.* 2024 Mar 5;14(1):5474.

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

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