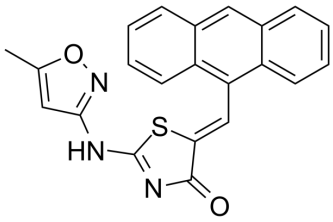
EGFR-IN-57

Cat. No.:	HY-146138
CAS No.:	2492382-37-1
Molecular Formula:	$C_{22}H_{15}N_3O_2S$
Molecular Weight:	385.44
Target:	EGFR; VEGFR; Casein Kinase; Topoisomerase; Microtubule/Tubulin; Apoptosis
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Cell Cycle/DNA Damage; Stem Cell/Wnt; Cytoskeleton; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	EGFR-IN-57 (Compound 25a) is a potent, orally active EGFR-TK inhibitor with an IC_{50} of 0.054 μM. EGFR-IN-57 also inhibits VEGFR-2, CK2α, topoisomerase IIβ and tubulin polymerization with IC_{50} values of 0.087, 0.171, 0.13 and 3.61 μM, respectively. EGFR-IN-57 induces cell cycle arrest at G2/M and pre-G1 phases. EGFR-IN-57 induces cancer cell apoptosis[1].

IC_{50} & Target				
	EGFR 0.054 μM (IC_{50})	VEGFR-2 0.087 μM (IC_{50})	topoisomerase II beta 0.13 μM (IC_{50})	CK2α 0.171 μM (IC_{50})
	tubulin polymerization 3.16 μM (IC_{50})			

REFERENCES

[1]. Warda ET, et al. New series of isoxazole derivatives targeting EGFR-TK: Synthesis, molecular modeling and antitumor evaluation. Bioorg Med Chem. 2020 Nov 1;28(21):115674.

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