## **EGFR-IN-108 chloride**

Cat. No.:	HY-163402	
Molecular Formula:	C <sub>45</sub> H <sub>40</sub> Cl <sub>3</sub> F <sub>3</sub> N <sub>8</sub> O <sub>3</sub> Ru	
Molecular Weight:	1005.28	
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. CI- $F_{F,F}$	



Product Data Sheet

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Description	EGFR-IN-108 chloride (Compound Ru3S) is an EGFR inhibitor with an IC <sub>50</sub> value of 5.8 nM for hEGFR. EGFR-IN-108 chloride induces apoptosis and has anti-proliferative activity against cancer cells. EGFR-IN-108 chloride also has anti-angiogenic effects <sup>[1]</sup> .		
In Vitro	Ru4S (0.2-100 μM; 48 h) shows cytotoxicity on HepG2, Caco-2, HT-29, MCF-7, A549, HEK293T cells, with IC <sub>50</sub> values of 23.76, 2.47, 6.24, 5.35, 29.90, 33.15 μM respectively <sup>[1]</sup> . Ru4S (0.78-50 μM; 48 h) induces apoptosis in HepG2 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay <sup>[1]</sup>		
	Cell Line:	HepG2, Caco-2, HT-29, MCF-7, A549, HEK293T cells	
	Concentration:	0.2-100 μΜ	
	Incubation Time:	48 h	
	Result:	exhibited cytotoxicity.	
	Cell Proliferation Assay <sup>[1]</sup>		
	Cell Line:	HepG2 cells	
	Concentration:	0.78, 3.12, 12.5, and 50 μM	
	Incubation Time:	48 h	
	Result:	increased Sub G1 (p < 0.0001) and decreased G0/G1, S, and G2/M percentages (p < 0.05) at 0.78 $\mu$ M. And slightly increased Sub G1 (p < 0.01), slightly decreased G0/G1 (p < 0.01), and decreased G2/M (p < 0.05) at 3.12 and 12.5 $\mu$ M. Increased Sub G1(p < 0.0001) and decreased S (p < 0.01), and did not affect the G0/G1 and G2/M phases at 50 $\mu$ M.	

## REFERENCES

® MedChemExpress [1]. Zengin Kurt B, et al. Synthesis of Sorafenib-Ruthenium Complexes, Investigation of Biological Activities and Applications in Drug Delivery Systems as an Anticancer Agent. J Med Chem. 2024 Mar 12.

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

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