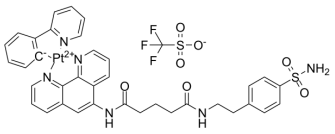
hCAIX-IN-13

Cat. No.:	HY-151406
CAS No.:	2813334-66-4
Molecular Formula:	$C_{37}H_{33}F_3N_6O_7PtS_2$
Molecular Weight:	989.9
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	hCAIX-IN-13 (Pt2) is an inhibitor of CAIX (arbonic anhydrase IX) with an IC_{50} value of 6.57 μM. hCAIX-IN-13 inhibits growth of cancer cells and induces cell apoptosis, it can be used for the research of cancer[1].
IC_{50} & Target	IC50: 6.57 μM (CAIX)[1]

In Vitro

hCAIX-IN-13 (10 and 20 μM; 24 h) effectively attenuates extracellular acidification through the inhibited activity of the cellular CAIX expression[1].

hCAIX-IN-13 (20 and 40 μM; 24 h) affects CAIX expression[1].

hCAIX-IN-13 (0-200 μM; 24 h) shows high cytotoxicity to cancer cell lines[1].

hCAIX-IN-13 (5-15 μM; 24 h) promotes the production of cellular ROS[1].

hCAIX-IN-13 (5-20 μM; 48 h) induces cell apoptosis[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	MDA-MB-231 cell line
Concentration:	20 and 40 μM
Incubation Time:	24 hours
Result:	Dose-dependently inhibited the expression level of cellular CAIX.

Cell Cytotoxicity Assay[1]

Cell Line:	Hela, A549, MDA-MB 231, HLF and LO2 cell lines
Concentration:	0-200 μM
Incubation Time:	48 hours
Result:	Showed cytotoxicity to Hela, A549, MDA-MB 231, normal cell HLF and normal cell LO2 with IC_{50}s of 31.64, 30.45, 12.67, 21.64 and ⊠100 μM, respectively.

Apoptosis Analysis[1]

Cell Line:	MDA-MB-231 cell line
Concentration:	5-20 μM
Incubation Time:	48 hours
Result:	Dose-dependently induced the early apoptotic stage.

REFERENCES

[1]. Yang J, et al. NIR phosphorescent cyclometalated platinum (II) complexes with CAIX targeted and nuclear penetration as potent anticancer theragnostic agents. Eur J Med Chem. 2022 Aug 31;243:114702.

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