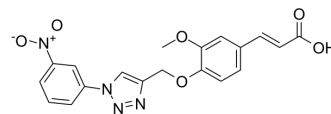


hCAIX-IN-8

Cat. No.:	HY-147722
CAS No.:	2414633-40-0
Molecular Formula:	C ₁₉ H ₁₆ N ₄ O ₆
Molecular Weight:	396.35
Target:	Carbonic Anhydrase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	hCAIX-IN-8 (compound 7i) is a potent and selective hCAIX inhibitor with IC ₅₀ s of 1.99, 0.024, 1.10 μM for CAII, CAIX, CAVA respectively. hCAIX-IN-8 shows anti-proliferation activity with low toxicity. hCAIX-IN-8 decreases the epithelial to mesenchymal transitions and induces apoptosis. hCAIX-IN-8 inhibits cell migration and colonization potential ^[1] .
IC₅₀ & Target	IC ₅₀ : 1.99 μM (CAII); 0.024 (CAIX), 1.10 μM (CAVA) ^[1]
In Vitro	hCAIX-IN-8 (compound 7i) shows anti-proliferation activity with IC ₅₀ of 8.44, 11.22 μM for HT29, HepG2 cells, respectively ^[1] . hCAIX-IN-8 induces apoptosis in 24.44% and 19.22% of HT29 and HepG2 cells, respectively ^{sup>} [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Aneja B, et al. Design, synthesis & biological evaluation of ferulic acid-based small molecule inhibitors against tumor-associated carbonic anhydrase IX. Bioorg Med Chem. 2020 May 1;28(9):115424.

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

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