hCAIX-IN-19

Cat. No.: HY-157135

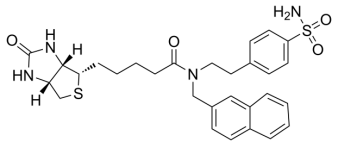
Molecular Formula: $C_{29}H_{34}N_4O_4S_2$

Molecular Weight: 566.73

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-19 is a sulfonamides inhibitor against hCA IX with an inhibition constant (K_I) of 6.2 nM and show good selectivity over hCA I (hCA I/ hCA IX = 117)[1].
IC_{50} & Target	hCA IX 6.2 nM (Ki)
In Vitro	hCAIX-IN-19 (1.0-100.0 μM, 48 h) shows antiproliferative activity in U87MG cells, MDA-MB-231 cells and PANC-1 cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[1]

Cell Line:	U87MG cells, MDA-MB-231 cells, PANC-1 cells
Concentration:	1.0 μM, 3.0 μM, 10.0 μM, 30.0 μM, 100.0 μM
Incubation Time:	48 h
Result:	Obviously affected cell proliferation at 100 μM in U87MG cells. Reduced cell proliferation to 39% at the highest dose tested in MDA-MB-231 cells.

REFERENCES

[1]. Begines P, et al. Design and synthesis of sulfonamides incorporating a biotin moiety: Carbonic anhydrase inhibitory effects, antiproliferative activity and molecular modeling studies [J]. Bioorganic & Medicinal Chemistry, 2023, 94: 117467.

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