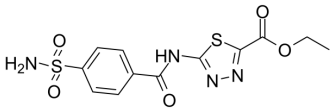
hCAI/II-IN-2

Cat. No.:	HY-147922
CAS No.:	2480283-75-6
Molecular Formula:	$C_{12}H_{12}N_4O_5S_2$
Molecular Weight:	356.38
Target:	Carbonic Anhydrase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	hCAI/II-IN-2 (compound 2b) is a potent dual hCA I/II inhibitor with K_i values of 40.97, 15.15 and 61.88 nM for hCA I, hCA II and hCA Ⅸ. hCAI/II-IN-2 possesses anti-hypoxic activity against acute mountain sickness (AMS) and low cellular activity[1].

In Vitro

hCAI/II-IN-2 (compound 2b) (5-200 μM, 48 hours; HEK293T cells) has no obvious toxicity at HEK293T cells[1].

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

Cell Cytotoxicity Assay[1]

Cell Line:	Embryonic kidney (HEK293T) cells
Concentration:	5, 25, 50, 100 and 200 μM
Incubation Time:	48 hours
Result:	Had no apparent cytotoxicity.

REFERENCES

[1]. Yang C, et al. N-Quinary heterocycle-4-sulphamoylbenzamides exert anti-hypoxic effects as dual inhibitors of carbonic anhydrases I/II. Bioorg Chem. 2020 Jul;100:103931.

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