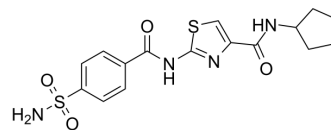


hCAI/II-IN-3

Cat. No.:	HY-147923
CAS No.:	2480283-93-8
Molecular Formula:	C ₁₆ H ₁₈ N ₄ O ₄ S ₂
Molecular Weight:	394.47
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-3 (compound 5b) is a potent dual hCA I/II inhibitor with K _i values of 51.25, 13.15 and 42.18 nM for hCA I, hCA II and hCA α . hCAI/II-IN-3 possesses anti-hypoxic activity against acute mountain sickness (AMS) and low cellular activity ^[1] .	
In Vitro	hCAI/II-IN-3 (compound 5b) (5-200 μ M, 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 μ M
	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.

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

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