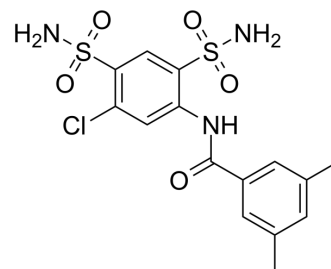


hCAII-IN-9

Cat. No.:	HY-152141
CAS No.:	2878477-18-8
Molecular Formula:	C ₁₅ H ₁₆ ClN ₃ O ₅ S ₂
Molecular Weight:	417.89
Target:	Carbonic Anhydrase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	hCAII-IN-9 is a potent carbonic anhydrase inhibitor with IC ₅₀ s of 1.18 μM (hCA II), 0.17 μM (hCA IX), and 2.99 μM (hCA XII), respectively. hCAII-IN-9 has no blood-brain barrier permeability ^[1] .		
IC₅₀ & Target	hCA II 1.18 μM (IC ₅₀)	hCA IX 0.17 μM (IC ₅₀)	hCA XII 2.99 μM (IC ₅₀)
In Vitro	hCAII-IN-9 (compound 11) (100 μM; 24-48 h) inhibits BHK-21 and HEK-293 cells with cell viability rates of 48% and 72% ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	hCAII-IN-9 (compound 11) has no blood-brain barrier permeability ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Hussain Z, et al. Synthesis and Evaluation of Amide and Thiourea Derivatives as Carbonic Anhydrase (CA) Inhibitors. ACS Omega. 2022 Dec 6;7(50):47251-47264.

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

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