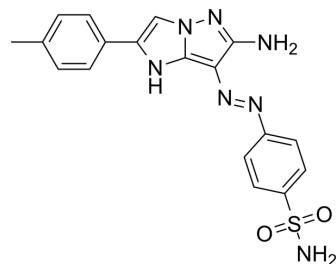


Carbonic anhydrase inhibitor 14

Cat. No.:	HY-150570
CAS No.:	2410402-75-2
Molecular Formula:	C ₁₈ H ₁₇ N ₇ O ₂ S
Molecular Weight:	395.44
Target:	Carbonic Anhydrase; CDK
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Carbonic anhydrase inhibitor 14 (Compound 8b) is a carbonic anhydrase (CA) inhibitor with K _i values of 1203, 99.7, 9.4 and 27.7 nM against hCA I, hCA II, hCA IX and hCA XII, respectively. Carbonic anhydrase inhibitor 14 can also inhibit CDK2 with an IC ₅₀ of 20.3 μM. Carbonic anhydrase inhibitor 14 shows antitumor activity ^[1] .			
IC₅₀ & Target	CDK2	hCA XII	hCA IX	hCA II
	20.3 μM (IC ₅₀)	27.7 nM (K _i)	9.4 nM (K _i)	99.7 nM (K _i)
	hCA I			
	1203 nM (K _i)			

REFERENCES

[1]. Said MA, et al. Sulfonamide-based ring-fused analogues for CAN508 as novel carbonic anhydrase inhibitors endowed with antitumor activity: Design, synthesis, and in vitro biological evaluation. *Eur J Med Chem.* 2020 Mar 1;189:112019.

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

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