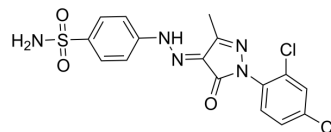


hCAIX/XII-IN-8

Cat. No.:	HY-156181
CAS No.:	59994-64-8
Molecular Formula:	C ₁₆ H ₁₃ Cl ₂ N ₃ O ₃ S
Molecular Weight:	426.28
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/XII-IN-8 (compound 3g) is a potent human (carbonic anhydrase) CA IX and XII inhibitor, with K _i values of 8.5 and 6.7 nM, respectively. hCAIX/XII-IN-8 shows particularly strong inhibitory activity against the tumor-associated membrane-bound isoforms, hCA IX and XII, while maintaining a high selectivity ratio over cytosolic off-target isoforms hCA I and II ^[1] .			
IC₅₀ & Target	hCA XII 6.7 nM (K _i)	hCA IX 8.5 nM (K _i)	hCA II 72.0 nM (K _i)	hCA I 5269 nM (K _i)

REFERENCES

[1]. Akocak S, et al. Potent and selective carbonic anhydrase inhibition activities of pyrazolones bearing benzenesulfonamides. Bioorg Med Chem Lett. 2023 Oct 15;95:129479.

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

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