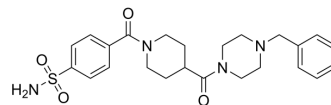


Carbonic anhydrase inhibitor 20

Cat. No.:	HY-161374
Molecular Formula:	C ₂₄ H ₃₀ N ₄ O ₄ S
Molecular Weight:	470.58
Target:	Carbonic Anhydrase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Carbonic anhydrase inhibitor 20 (compound 11) is an inhibitor of piperazinosulfonamide carbonic anhydrase (Carbonic Anhydrase). The K _i of Carbonic anhydrase inhibitor 20 for hCA I, hCA II, hCA IX, and hCA XII are 47.6 nM, 36.5 nM, 8.3 nM, and 2.7 nM respectively. ^{[6][1]}			
IC ₅₀ & Target	hCA XII 2.7 nM (K _i , [1])	hCA IX 8.3 nM (K _i , [1])	hCA II 36.5 nM (K _i , [1])	hCA I 47.6 nM (K _i , [1])

REFERENCES

[1]. Moi D, et al. Discovery of a New Class of 1-(4-Sulfamoylbenzoyl)piperidine-4-carboxamides as Human Carbonic Anhydrase Inhibitors. ACS Med Chem Lett. 2024 Mar 13;15(4):470-477.

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

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