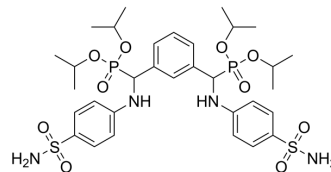


Carbonic anhydrase inhibitor 21

Cat. No.:	HY-158078
Molecular Formula:	C ₃₂ H ₄₈ N ₄ O ₁₀ P ₂ S ₂
Molecular Weight:	774.82
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 21 (Compound 5h) is a selective carbonic anhydrase (hCA IX) inhibitor, with a K _i of 15.1 nM, and is highly selective against other investigated isoform. Carbonic anhydrase inhibitor 21 can be used for anticancer research ^[1] .
In Vitro	Carbonic anhydrase inhibitor 21 inhibits hCA I, hCA II, hCA VII, hCA IX and hCA XIII with K _i s of 632.8, 87.5, 42.5, 15.1, 76.4 nM respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sobati M, et al. Sulfonamide-incorporated bis(α-aminophosphonates) as promising carbonic anhydrase inhibitors: Design, synthesis, biological evaluation, and X-ray crystallographic studies. Arch Pharm (Weinheim). 2024 Mar 18:e2400038.

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

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