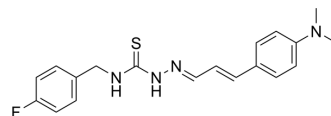


CAII-IN-1

Cat. No.:	HY-151493
Molecular Formula:	C ₁₉ H ₂₁ FN ₄ S
Molecular Weight:	356.46
Target:	Carbonic Anhydrase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CAII-IN-1 (compound 3n), a thiosemicarbazide derivative, is a potent, selective carbonic anhydrase-II (CA-II) inhibitor with an IC ₅₀ value of 10.3 μM for bovine CA-II. CAII-IN-1 can be used in research of carbonic anhydrase related biological disorders ^[1] .
In Vitro	CAII-IN-1 (compound 3n) inhibits carbonic anhydrase-II (CA-II) by specifically mediate ionic interaction with the Zn ion in the active site of CA-II ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Rasool A, et, al. Bis-pharmacophore of cinnamaldehyde-clubbed thiosemicarbazones as potent carbonic anhydrase-II inhibitors. Sci Rep. 2022 Sep 27;12(1):16095.

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

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