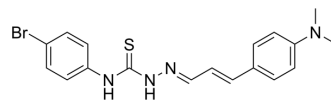


## CAII-IN-2

Cat. No.:	HY-151494
Molecular Formula:	C <sub>18</sub> H <sub>19</sub> BrN <sub>4</sub> S
Molecular Weight:	403.34
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-2 (compound 3g), a thiosemicarbazide derivative, is a potent, selective carbonic anhydrase-II (CA-II) inhibitor with an IC <sub>50</sub> value of 12.1 μM for bovine CA-II. CAII-IN-2 can be used in research of carbonic anhydrase related biological disorders <sup>[1]</sup> .
In Vitro	CAII-IN-2 (compound 3g) inhibits carbonic anhydrase-II (CA-II) by specifically mediate ionic interaction with the Zn ion in the active site of CA-II <sup>[1]</sup> . 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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA