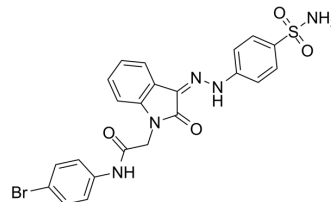


## Carbonic anhydrase inhibitor 9

Cat. No.:	HY-144807
Molecular Formula:	C <sub>22</sub> H <sub>18</sub> BrN <sub>5</sub> O <sub>4</sub> S
Molecular Weight:	528.38
Target:	Carbonic Anhydrase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Carbonic anhydrase inhibitor 9 is a potent carbonic anhydrase (CA) inhibitor with K <sub>i</sub> s of 56.4 and 56.9 nM for hCA II and IX, respectively. Antiproliferative activity <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	CA ☒	CA ☒
<b>In Vitro</b>	Carbonic anhydrase inhibitor 9 (compound 3c) exerts only cytotoxic activity against A549 cell line with IC <sub>50</sub> =5.90 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

### REFERENCES

[1]. Said MF, et al. Synthesis, molecular modelling and QSAR study of new N-phenylacetamide-2-oxoindole benzensulfonamide conjugates as carbonic anhydrase inhibitors with antiproliferative activity. J Enzyme Inhib Med Chem. 2022;37(1):701-717.

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

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