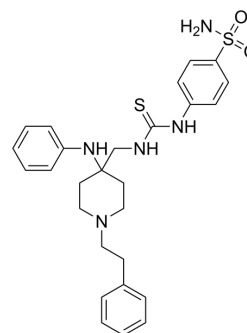


## Carbonic anhydrase inhibitor 15

Cat. No.:	HY-149498
Molecular Formula:	C <sub>27</sub> H <sub>33</sub> N <sub>5</sub> O <sub>2</sub> S <sub>2</sub>
Molecular Weight:	523.71
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 15 (Compound 8) is a carbonic anhydrase inhibitor (K <sub>i</sub> : 8.5 nM for hCA II). Carbonic anhydrase inhibitor 15 has analgesic effect <sup>[1]</sup> .
IC <sub>50</sub> & Target	Ki: 290.8 nM, 8.5 nM, 9179 nM, 718.7 nM, 33.6 nM, 18.9 nM, 14.8 nM, 82.8 nM, 55.3 nM (hCA I, hCA II, hCA IV, hCA VA, hCA VII, hCA IX, CA XII, hCA XIII, hCA XIV) <sup>[1]</sup>

### REFERENCES

[1]. Angeli A, et al. Discovery of a novel series of potent carbonic anhydrase inhibitors with selective affinity for  $\mu$  Opioid receptor for Safer and long-lasting analgesia. Eur J Med Chem. 2023 Nov 15;260:115783.

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

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