



# SZABO SCANDIC

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## Produktinformation



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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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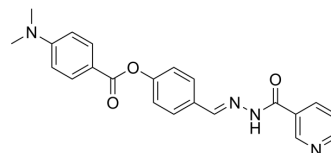
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## hCAI/II-IN-8

<b>Cat. No.:</b>	HY-161507
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>20</sub> N <sub>4</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	388.42
<b>Target:</b>	Carbonic Anhydrase; Cholinesterase (ChE)
<b>Pathway:</b>	Metabolic Enzyme/Protease; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	hCAI/II-IN-8 (Compound 8) is a hydrazide derivative based on 4-hydroxybenzaldehyde. hCAI/II-IN-8 primarily targets human carbonic anhydrase isomerase I (hCA I) and II (hCA II) for inhibition (IC <sub>50</sub> = 21.35 ± 0.39 nM (hCA I); 7.12 ± 0.12 nM (hCA II)). hCAI/II-IN-8 inhibits AChE and BChE as well (IC <sub>50</sub> = 46.27 ± 0.75 nM (AChE); 43.38 ± 0.83 nM (BChE)). <sup>[1],[1]</sup>			
<b>IC<sub>50</sub> &amp; Target</b>	hCA I 21.35 nM (IC <sub>50</sub> )	hCA II 7.12 nM (IC <sub>50</sub> )	AChE 46.27 ± 0.7 nM (IC <sub>50</sub> )	BChE 43.38 ± 0. nM (IC <sub>50</sub> )
<b>In Vitro</b>	hCAI/II-IN-8 is an efficient activity inhibitor by forming multiple hydrogen bonds and hydrophobic interactions with key residues in hCA I and hCA II. hCAI/II-IN-8 also has high stability in binding to the enzyme <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

### REFERENCES

[1]. Çakmak, R. et al. Synthesis of Novel Hydrazide-Hydrazone Compounds and In Vitro and In Silico Investigation of Their Biological Activities against AChE, BChE, and hCA I and II. ACS Omega, 9(18), 20030–20041.

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

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