



# SZABO SCANDIC

Part of Europa Biosite

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### Zuschläge

- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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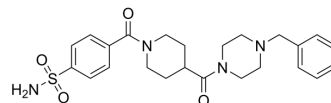
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## Carbonic anhydrase inhibitor 20

<b>Cat. No.:</b>	HY-161374
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>30</sub> N <sub>4</sub> O <sub>4</sub> S
<b>Molecular Weight:</b>	470.58
<b>Target:</b>	Carbonic Anhydrase
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Carbonic anhydrase inhibitor 20 (compound 11) is an inhibitor of piperazinosulfonamide carbonic anhydrase (Carbonic Anhydrase). The K <sub>i</sub> of Carbonic anhydrase inhibitor 20 for hCA I, hCA II, hCA IX, and hCA XII are 47.6 nM, 36.5 nM, 8.3 nM, and 2.7 nM respectively. <sup>[6][1]</sup>			
<b>IC<sub>50</sub> &amp; Target</b>	hCA XII 2.7 nM (K <sub>i</sub> , [1])	hCA IX 8.3 nM (K <sub>i</sub> , [1])	hCA II 36.5 nM (K <sub>i</sub> , [1])	hCA I 47.6 nM (K <sub>i</sub> , [1])

### REFERENCES

[1]. Moi D, et al. Discovery of a New Class of 1-(4-Sulfamoylbenzoyl)piperidine-4-carboxamides as Human Carbonic Anhydrase Inhibitors. ACS Med Chem Lett. 2024 Mar 13;15(4):470-477.

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

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