



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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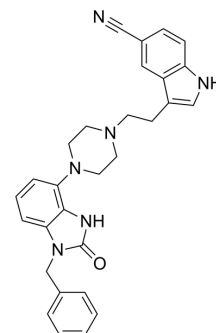
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## 5HT6-ligand-2

Cat. No.:	HY-162636
Molecular Formula:	C <sub>29</sub> H <sub>28</sub> N <sub>6</sub> O
Molecular Weight:	476.57
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	5HT6-ligand-2 (compound 15) is a potent 5-HT <sub>6</sub> inhibitor with K <sub>i</sub> values of 3.4, 15 nM for 5-HT <sub>6</sub> , SERT, respectively. 5HT6-ligand-2 shows neuroprotection. 5HT6-ligand-2 has the potential for the research of dementia <sup>[1]</sup> .																												
<b>IC<sub>50</sub> &amp; Target</b>	5-HT <sub>6</sub> Receptor																												
<b>In Vivo</b>	<p>BET-IN-26 (compound 13a) (10, 100 mg/kg; p.o.) decreases the LPS (HY-D1056) induced serum levels of IL-6 and MCP-1 in a dose-dependent manner in mice<sup>[1]</sup>.</p> <p>Pharmacokinetic Parameters (2.5 mg/kg; i.p.; Male Wistar rats)<sup>[1]</sup>.</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Serum</th> <th>Brain</th> </tr> </thead> <tbody> <tr> <td>C<sub>max</sub> (ng/ml(g))</td> <td>45.21</td> <td>3.78</td> </tr> <tr> <td>t<sub>max</sub> (min)</td> <td>30</td> <td>30</td> </tr> <tr> <td>l<sub>z</sub> (min<sup>-1</sup>)</td> <td>0.0099</td> <td>0.0072</td> </tr> <tr> <td>t<sub>0.5</sub> (min)</td> <td>70.08</td> <td>96.71</td> </tr> <tr> <td>V<sub>z</sub>/F (l/kg)</td> <td>55.87</td> <td>-</td> </tr> <tr> <td>CL/F (l/min/kg)</td> <td>0.55</td> <td>-</td> </tr> <tr> <td>AUC<sub>(0-inf)</sub> (ng/mL*min)</td> <td>4542.15</td> <td>606.48</td> </tr> <tr> <td>MRT (min)</td> <td>104.27</td> <td>152.35</td> </tr> </tbody> </table> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>		Parameter	Serum	Brain	C <sub>max</sub> (ng/ml(g))	45.21	3.78	t <sub>max</sub> (min)	30	30	l <sub>z</sub> (min <sup>-1</sup> )	0.0099	0.0072	t <sub>0.5</sub> (min)	70.08	96.71	V <sub>z</sub> /F (l/kg)	55.87	-	CL/F (l/min/kg)	0.55	-	AUC <sub>(0-inf)</sub> (ng/mL*min)	4542.15	606.48	MRT (min)	104.27	152.35
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Animal Model:	230-260 g, 8 weeks old Male Wistar rats (MK-801-induced memory impairment) <sup>[1]</sup>
Dosage:	2.5, 5, 7.5 mg/kg
Administration:	I.p.; 30 min before testing
Result:	Significantly reduced immobility time by 30.5 % and increased climbing behaviors by 63 %, without affecting the duration of swimming at 5 mg/kg.

## REFERENCES

[1]. Siwek A, et al. Dual 5-HT<sub>6</sub>/SERT ligands for mitigating neuropsychiatric symptoms of dementia exerting neuroprotection against amyloid- $\beta$  toxicity, memory preservation, and antidepressant-like properties. *Eur J Med Chem.* 2024 Sep 5;275:116601.

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

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