



# SZABO SCANDIC

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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
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### SZABO-SCANDIC HandelsgmbH

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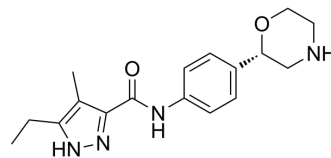
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## Ralmitaront

<b>Cat. No.:</b>	HY-109157		
<b>CAS No.:</b>	2133417-13-5		
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>22</sub> N <sub>4</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	314.38		
<b>Target:</b>	Trace Amine-associated Receptor (TAAR); 5-HT Receptor; Dopamine Receptor		
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (318.09 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM		3.1809 mL	15.9043 mL	31.8086 mL
		5 mM		0.6362 mL	3.1809 mL	6.3617 mL
10 mM			0.3181 mL	1.5904 mL	3.1809 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (7.95 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.95 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (7.95 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Ralmitaront (RO6889450) is an orally active agonist of trace amine-associated receptor 1 (TAAR1) with a EC <sub>50</sub> value of 110.4 nM. Ralmitaront has antipsychotic, cognitively improvement, and antidepressant activity in rodents. Ralmitaront can be used as a neurosuppressant in the study of neuro-related diseases, such as schizophrenia (SCZ), schizoaffective disorder <sup>[1]</sup> [2][3][4].
<b>IC<sub>50</sub> &amp; Target</b>	TAAR1

## In Vitro

Ralmitaront (0-30  $\mu$ M, 70 min) displays lower efficacy and slower binding kinetics than Ulotaront at TAAR1, whereas at the 5-HT<sub>1A</sub>R and the D<sub>2</sub> R, Ralmitaront lacks demonstrable activity<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## CUSTOMER VALIDATION

- Nature. 2023 Dec;624(7992):672-681.

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## REFERENCES

- [1]. Halfff EF, et al. Trace amine-associated receptor 1 (TAAR1) agonism as a new treatment strategy for schizophrenia and related disorders. Trends Neurosci. 2023 Jan;46(1):60-74.
- [2]. Ågren R, et al. In Vitro Comparison of Ulotaront (SEP-363856) and Ralmitaront (RO6889450): Two TAAR1 Agonist Candidate Antipsychotics. Int J Neuropsychopharmacol. 2023 Sep 25;26(9):599-606.
- [3]. Yu J, et al. Elucidating the molecular pharmacology of trace amine-associated receptor 1 to advance antipsychotic drug discovery. Clin Transl Med. 2024 Feb;14(2):e1576.
- [4]. Linda S Brady, et al. Redirecting the revolution: new developments in drug development for psychiatry. Expert Opin Drug Discov. 2019 Dec;14(12):1213-1219.

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

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