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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

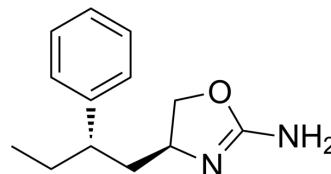
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

RO5256390

Cat. No.:	HY-12700
CAS No.:	1043495-96-0
Molecular Formula:	C ₁₃ H ₁₈ N ₂ O
Molecular Weight:	218.29
Target:	Trace Amine-associated Receptor (TAAR)
Pathway:	GPCR/G Protein
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (229.05 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		4.5811 mL	22.9053 mL	45.8106 mL
		5 mM		0.9162 mL	4.5811 mL	9.1621 mL
		10 mM		0.4581 mL	2.2905 mL	4.5811 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (11.45 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (11.45 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.45 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	RO5256390 is an agonist of trace amine-associated receptor 1 (TAAR1), a highly conserved G-protein-coupled receptor (GPCR) bound by endogenous trace amines. RO5256390 can be used to reduce multiple behavioral effects of agents of abuse through their actions on the mesocorticolimbic system^[1]. RO5256390 is a modulator of monoaminergic neurotransmission, blocks psychostimulant-induced hyperactivity and produces a brain activation pattern reminiscent of the antipsychotic agent olanzapine, suggesting antipsychotic-like properties^[2].
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CUSTOMER VALIDATION

- Oregon Health and Science University. 2023 Jun 29.

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REFERENCES

- [1]. Ferragud A, et al. The Trace Amine-Associated Receptor 1 Agonist RO5256390 Blocks Compulsive, Binge-like Eating in Rats. *Neuropsychopharmacology*. 2017 Jun;42(7):1458-1470.
- [2]. Revel FG, et al. A new perspective for schizophrenia: TAAR1 agonists reveal antipsychotic- and antidepressant-like activity, improve cognition and control body weight. *Mol Psychiatry*. 2013 May;18(5):543-56.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA