



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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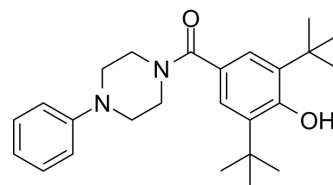
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## LQFM215

<b>Cat. No.:</b>	HY-161137		
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>34</sub> N <sub>2</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	394.55		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<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 (253.45 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		2.5345 mL	12.6727 mL	25.3453 mL
		<b>5 mM</b>		0.5069 mL	2.5345 mL	5.0691 mL
<b>10 mM</b>		0.2535 mL	1.2673 mL	2.5345 mL		
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.34 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	LQFM215 is a proline transporter (PROT) inhibitor. LQFM215 inhibits proline transport by competitively binding to the active site of PROT. LQFM215 effectively reduces hyperlocomotion and enhances social interaction <sup>[1]</sup> .	
<b>In Vitro</b>	LQFM215 (0.39-100 μM; 24 h) shows low neurotoxicity against LUHMES cells <sup>[1]</sup> . LQFM215 (0.09-100 μM; 24 h) shows concentration-dependent effects on growth of differentiated neural protrusions and cell survival in LUHMES cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup>	
	Cell Line:	LUHMES cells
	Concentration:	0.09-100 μM

	Incubation Time:	24 h
	Result:	During the developmental phase, neural protrusion formation was inhibited at an IC <sub>50</sub> of 3 μM. During maturation, a concentration of 14 μM IC <sub>50</sub> reduced neural protrusion growth and cell survival.
	Cell Cytotoxicity Assay <sup>[1]</sup>	
	Cell Line:	LUHMES cells
	Concentration:	0.39-100 μM
	Incubation Time:	24 h
	Result:	Reduced cell viability and neural protrusion growth in LUHMES cells, but this effect was mitigated when co-cultured with astrocytes
<b>In Vivo</b>	LQFM215 (i.p.; 10-30 mg/kg; single dose) significantly reduces ketamine-induced hyperlocomotion in Swiss mice <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Male Swiss mice <sup>[1]</sup>
	Dosage:	10; 20; 30 mg/kg
	Administration:	i.p.; single dose
	Result:	Increased the time spent in social interaction with an intruder animal in ketamine-treated mice across all doses, particularly at 10 mg/kg and 20 mg/kg. Increased the number of social interactions at 30 mg/kg.

## REFERENCES

[1]. Carvalho GA, et al. Novel Proline Transporter Inhibitor (LQFM215) Presents Antipsychotic Effect in Ketamine Model of Schizophrenia. *Neurochem Res.* 2024 Jan;49(1):170-183.

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

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