



# SZABO SCANDIC

Part of Europa Biosite

## 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

Quellenstraße 110, A-1100 Wien

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

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

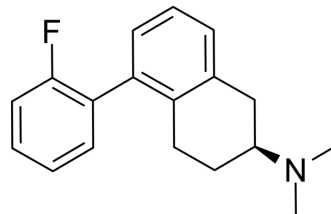
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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## FPT

Cat. No.:	HY-160887
CAS No.:	2048491-06-9
Molecular Formula:	C <sub>18</sub> H <sub>20</sub> FN
Molecular Weight:	269.36
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>	FPT, a 2-Aminotetralin, is an efficacious partial agonist at 5-HT <sub>1A</sub> R, a full agonist at 5-HT <sub>1B</sub> R and 5-HT <sub>1D</sub> R with EC <sub>50</sub> s of 39.3 nM, 1.2 nM, 0.5 nM, respectively. FPT is a weak agonist at 5-HT <sub>7</sub> R. FPT shows in vivo efficacy as an antiepileptic in Fmr1 knockout mice and has anxiolytic-like and prosocial effects in Fmr1 knockout mice and other mouse models <sup>[1]</sup> .			
<b>IC<sub>50</sub> &amp; Target</b>	5-HT <sub>1A</sub> Receptor 39.3 nM (IC <sub>50</sub> )	5-HT <sub>1B</sub> Receptor 1.2 nM (IC <sub>50</sub> )	5-HT <sub>1D</sub> Receptor 0.5 nM (IC <sub>50</sub> )	5-HT <sub>1A</sub> Receptor 4.3 nM (Ki)
	5-HT <sub>1B</sub> Receptor 2.3 nM (Ki)	5-HT <sub>1D</sub> Receptor 1.2 nM (Ki)	5-HT <sub>1F</sub> Receptor >10,000 nM (Ki)	5-HT <sub>7</sub> Receptor

## REFERENCES

[1]. Tanishka S Saraf, et al. FPT, a 2-Aminotetralin, Is a Potent Serotonin 5-HT<sub>1A</sub>, 5-HT<sub>1B</sub>, and 5-HT<sub>1D</sub> Receptor Agonist That Modulates Cortical Electroencephalogram Activity in Adult Fmr1 Knockout Mice. ACS Chem Neurosci. 2022 Dec 21;13(24):3629-3640.

**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