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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



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) 

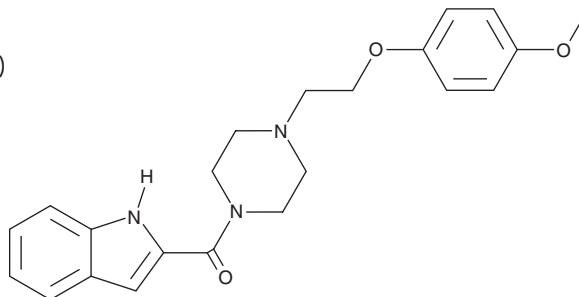
PRODUCT INFORMATION



ML-417

Item No. 36582

CAS Registry No.: 1386162-69-1
Formal Name: 1H-indol-2-yl[4-[2-(4-methoxyphenoxy)ethyl]-1-piperazinyl]-methanone
MF: C₂₂H₂₅N₃O₃
FW: 379.5
Purity: ≥98%
UV/Vis.: λ_{max}: 218, 294 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

ML-417 is supplied as a solid. A stock solution may be made by dissolving the ML-417 in the solvent of choice, which should be purged with an inert gas. ML-417 is soluble in ethanol.

Description

ML-417 is a dopamine D₃ receptor agonist.¹ It is selective for the dopamine D₃ receptor over the dopamine D₂ receptor (EC₅₀s = 38 and >10,000 nM, respectively, in β-arrestin recruitment assays using CHO-K1 cells expressing the human receptors) and dopamine D₁, D₄, and D₅ receptors, as well as a panel of 45 G protein-coupled receptors (GPCRs), transporters, and ion channels at 10 μM. ML-417 inhibits forskolin-induced cAMP accumulation in HEK293 cells expressing the human dopamine D₃ receptor (IC₅₀ = 86 nM) and induces phosphorylation of ERK in CHO-K1 cells expressing the human dopamine D₃ receptor (EC₅₀ = 21 nM). It protects against cell death induced by the catecholaminergic neurotoxin 6-OHDA (Item No. 25330) in human induced pluripotent stem cell-derived (iPSC-derived) cells differentiated into dopaminergic neurons when used at a concentration of 50 nM.

Reference

1. Moritz, A.E., Free, R.B., Weiner, W.S., *et al.* Discovery, optimization, and characterization of ML417: A novel and highly selective D₃ dopamine receptor agonist. *J. Med. Chem.* **63**(10), 5526-5567 (2020).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM