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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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) 

PRODUCT INFORMATION

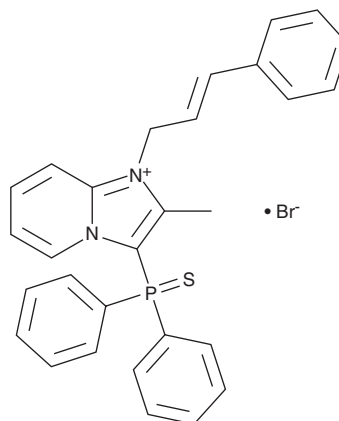


ML154

Item No. 30200

CAS Registry No.: 1345964-89-7
Formal Name: 3-(diphenylphosphinothioyl)-2-methyl-1-[(2E)-3-phenyl-2-propen-1-yl]-imidazo[1,2-a]pyridinium, monobromide

Synonym: NCGC84
MF: C₂₉H₂₆N₂PS • Br
FW: 545.5
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

ML154 is supplied as a solid. A stock solution may be made by dissolving the ML154 in the solvent of choice, which should be purged with an inert gas. ML154 is soluble in the organic solvent DMSO (sonicated) at a concentration of approximately 10 mg/ml.

Description

ML154 is an antagonist of the neuropeptide S receptor (NPSR; IC₅₀ = 3.5 nM).¹ It is selective for NPSR over arginine vasopressin (AVP) receptor V_{1B}, as well as a panel of 55 receptors, channels, and transporters at 10 μM.^{1,2} ML154 reduces NPS-induced calcium mobilization, cAMP formation, and ERK activation with IC₅₀ values of 0.96, 45, and 1.3 nM, respectively, in CHO cells expressing NPSR.¹ It reduces alcohol self-administration and the progressive ratio breakpoint, but not cue- or stress-induced reinstatement of alcohol-seeking behavior, in rats when administered intraperitoneally at a dose of 1 mg/kg.² ML154 (10 μg, i.c.v.) inhibits decreases in food intake induced by intracerebroventricular administration of NPS in rats.¹

References

1. Patnaik, S., Marugan, J.J., Liu, K., *et al.* Structure-activity relationship of imidazopyridinium analogues as antagonists of neuropeptide S receptor. *J. Med. Chem.* **56**(22), 9045-9056 (2013).
2. Thorsell, A., Tapocik, J.D., Liu, K., *et al.* A novel brain penetrant NPS receptor antagonist, NCGC00185684, blocks alcohol-induced ERK-phosphorylation in the central amygdala and decreases operant alcohol self-administration in rats. *J. Neurosci.* **33**(24), 10132-10142 (2013).

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.

WARRANTY AND LIMITATION OF REMEDY

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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