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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

Quellenstraße 110, A-1100 Wien

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

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

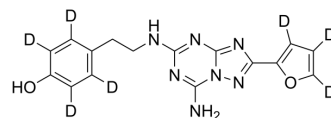
mail@szabo-scandic.com

www.szabo-scandic.com

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

ZM241385-d₇

Cat. No.:	HY-19532S
Molecular Formula:	C ₁₆ H ₈ D ₇ N ₇ O ₂
Molecular Weight:	344.38
Target:	Isotope-Labeled Compounds; Adenosine Receptor
Pathway:	Others; GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ZM241385-d ₇ is a deuterated form of ZM241385 (HY-19532). ZM241385 is a potent, high affinity and selective adenosine A _{2A} receptor (A _{2A} R) antagonist with a K _i value of 1.4 nM ^{[1][2][3]} .
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Wang Z, et al. Static magnetic field exposure reproduces cellular effects of the Parkinson's disease drugcandidate ZM241385. *PLoS One*. 2010 Nov 8;5(11):e13883.
- [3]. Linden J, et al. Characterization of human A(2B) adenosine receptors: radioligandbinding, western blotting, and coupling to G(q) in human embryonickidney 293 cells and HMC-1 mast cells. *Mol Pharmacol*. 1999 Oct;56(4):705-13.

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