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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

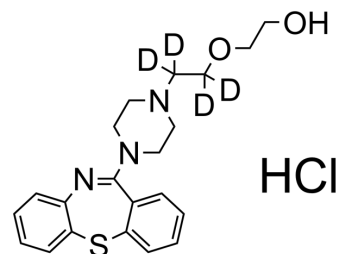
mail@szabo-scandic.com

www.szabo-scandic.com

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

Quetiapine-d₄ hydrochloride

Cat. No.:	HY-14544AS
Molecular Formula:	C ₂₁ H ₂₂ D ₄ ClN ₃ O ₂ S
Molecular Weight:	423.99
Target:	Isotope-Labeled Compounds; Dopamine Receptor; 5-HT Receptor
Pathway:	Others; GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Quetiapine-d₄ (hydrochloride) (ICI204636-d₄ (hydrochloride)) is deuterium labeled Quetiapine. Quetiapine (ICI204636) is a 5-HT receptors agonist with a pEC₅₀ of 4.77 for human 5-HT_{1A} receptor. Quetiapine is a dopamine receptor antagonist with a pIC₅₀ of 6.33 for human D₂ receptor. Quetiapine has moderate to high affinity for the human D₂, HT_{1A}, 5-HT_{2A}, 5-HT_{2C} receptor with pK_is of 7.25, 5.74, 7.54, 5.55. Antidepressant and anxiolytic effects^{[1][2]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Hanzhi Wang, et al. Quetiapine Inhibits Microglial Activation by Neutralizing Abnormal STIM1-Mediated Intercellular Calcium Homeostasis and Promotes Myelin Repair in a Cuprizone-Induced Mouse Model of Demyelination. *Front Cell Neurosci*. 2015 Dec 21;9:492.
- [3]. Cross AJ, et al. Quetiapine and its metabolite norquetiapine: translation from in vitro pharmacology to in vivo efficacy in rodent models. *Br J Pharmacol*. 2016 Jan;173(1):155-66.

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