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Zuschläge

- Mindermengenzuschlag
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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

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

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

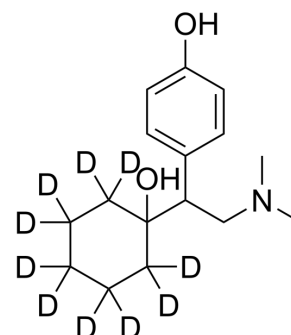
mail@szabo-scandic.com

www.szabo-scandic.com

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

Desvenlafaxine-d₁₀

Cat. No.:	HY-B0602S3
CAS No.:	1062607-49-1
Molecular Formula:	C ₁₆ H ₁₅ D ₁₀ NO ₂
Molecular Weight:	273.44
Target:	Serotonin Transporter; Isotope-Labeled Compounds
Pathway:	Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Desvenlafaxine-d ₁₀ is deuterium labeled Desvenlafaxine. Desvenlafaxine, the succinate salt form of the isolated major active metabolite of Venlafaxine (HY-B0196), is an orally active and BBB penetrated 5-HT and norepinephrine reuptake inhibitor, with IC ₅₀ values of 47.3 nM and 531.3 nM for hSERT and hNET, respectively. Desvenlafaxine shows weak binding affinity (62% inhibition at 100 μM) at the human dopamine (DA) transporter[1][2].
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]. Deecher, D.C., et al., Desvenlafaxine succinate: A new serotonin and norepinephrine reuptake inhibitor. *J Pharmacol Exp Ther*, 2006. 318(2): p. 657-65.
- [3]. Sopko, M.A., Jr., M.J. Ehret, and M. Grgas, Desvenlafaxine: another "me too" drug? *Ann Pharmacother*, 2008. 42(10): p. 1439-46.

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