



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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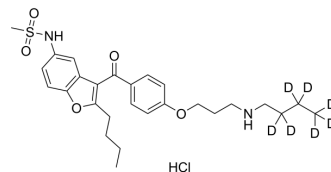
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## Debutyl-dronedarone-d<sub>7</sub> hydrochloride

<b>Cat. No.:</b>	HY-12753AS
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>30</sub> D <sub>7</sub> ClN <sub>2</sub> O <sub>5</sub> S
<b>Molecular Weight:</b>	544.15
<b>Target:</b>	Thyroid Hormone Receptor; Isotope-Labeled Compounds
<b>Pathway:</b>	Vitamin D Related/Nuclear Receptor; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Debutyl-dronedarone-d <sub>7</sub> hydrochloride is deuterated labeled Debutyl-dronedarone hydrochloride (HY-12753A). Debutyl-dronedarone (SR35021) hydrochloride, the main metabolite of Dronedarone, is a selective thyroid hormone receptor α <sub>1</sub> (TRα <sub>1</sub> ) inhibitor. Debutyl-dronedarone hydrochloride inhibits T <sub>3</sub> binding to TRα <sub>1</sub> and TRβ <sub>1</sub> by 77% and 25%, respectively. Debutyl-dronedarone hydrochloride can be used for the research of arrhythmic <sup>[1]</sup> .
<b>In Vitro</b>	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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Van Beeren HC, et al. Dronedarone acts as a selective inhibitor of 3,5,3'-triiodothyronine binding to thyroid hormone receptor-α1: in vitro and in vivo evidence. *Endocrinology*. 2003 Feb;144(2):552-8.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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