SZABO SCANDIC

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# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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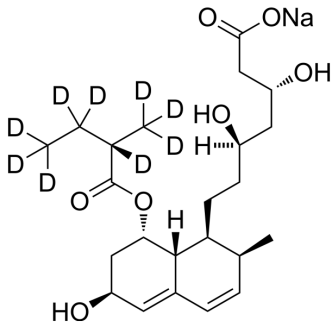
# Pravastatin-$d_9$ sodium

| | |
|---|---|
| **Cat. No.:** | HY-B0165S |
| **Molecular Formula:** | $C_{23}H_{26}D_9NaO_7$ |
| **Molecular Weight:** | 455.57 |
| **Target:** | Autophagy; HMG-CoA Reductase (HMGCR); Isotope-Labeled Compounds |
| **Pathway:** | Autophagy; Metabolic Enzyme/Protease; Others |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |




## BIOLOGICAL ACTIVITY

| | |
|---|---|
| **Description** | Pravastatin-$d_9$ sodium is deuterated labeled Pravastatin (HY-B0165). Pravastatin (CS-514) is a competitive HMG-CoA reductase inhibitor against sterol synthesis with $IC_{50}$ of 5.6 μM[1]. |
| **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].<br>Pravastatin (CS-514) is a member of the drug class of statins, used in combination with diet, exercise, and weight-loss for lowering cholesterol and preventing cardiovascular disease[2].<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

## REFERENCES

[1]. McTavish D, et al. Pravastatin. A review of its pharmacological properties and therapeutic potential in hypercholesterolaemia. Drugs. 1991 Jul;42(1):65-89.

[2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.



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