



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

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) 

PRODUCT INFORMATION

Saxagliptin-¹³C-d₂ (hydrochloride)

Item No. 26709

Formal Name: (1S,3S,5S)-2-((S)-2-amino-2-((1R,3R,5R,7S)-3-hydroxyadamantan-1-yl)acetyl)-2-azabicyclo[3.1.0]hexane-6-¹³C-6,6-d₂-3-carbonitrile, monohydrochloride

MF: C₁₇[¹³C]H₂₃D₂N₃O₂ • HCl

FW: 354.9

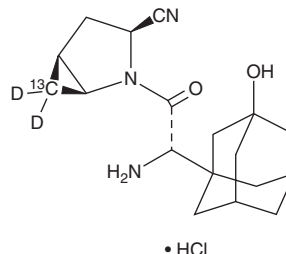
Chemical Purity: ≥95% (Saxagliptin)

Deuterium Incorporation: ≥99% deuterated forms (d₁-d₂); ≤1% d₀

Supplied as: A solid

Storage: -20°C

Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Saxagliptin-¹³C-d₂ (hydrochloride) is intended for use as an internal standard for the quantification of Saxagliptin (Item No. 23697) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

Saxagliptin-¹³C-d₂ (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the saxagliptin-¹³C-d₂ (hydrochloride) in the solvent of choice. Saxagliptin-¹³C-d₂ (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of saxagliptin-¹³C-d₂ (hydrochloride) in ethanol is approximately 10 mg/ml and approximately 20 mg/ml in DMSO and DMF.

Description

Saxagliptin is a potent inhibitor of dipeptidyl peptidase 4 (DPP-4; K_i = 0.6 nM).¹ It inhibits DPP-4 *ex vivo* (ED₅₀ = 0.12 μmol/kg) in plasma from normal fasted rats. Saxagliptin (0.3-3 mg/kg) reduces plasma glucose levels in Zucker^{fa/fa} diabetic rats in a dose-dependent manner. Oral administration at doses ranging from 1-10 μmol/kg increases plasma insulin levels and improves glucose clearance in *ob/ob* mice, a transgenic model of obesity. Saxagliptin induces systolic and diastolic dysfunction, reduces contractile force, and exacerbates ischemia-reperfusion injury-induced cardiac dysfunction in isolated guinea pig hearts.² Formulations containing saxagliptin have been used for the treatment of type 2 diabetes.

References

1. Augeri, D.J., Robl, J.A., Betebenner, D.A., *et al.* Discovery and preclinical profile of Saxagliptin (BMS-477118): A highly potent, long-acting, orally active dipeptidyl peptidase IV inhibitor for the treatment of type 2 diabetes. *J. Med. Chem.* **48**(15), 5025-5037 (2005).
2. Koyani, C.N., Kolesnik, E., Wölkart, G., *et al.* Dipeptidyl peptidase-4 independent cardiac dysfunction links saxagliptin to heart failure. *Biochem. Pharmacol.* **145**(1), 64-80 (2017).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 01/22/2019

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM