



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 Handels GmbH

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) 

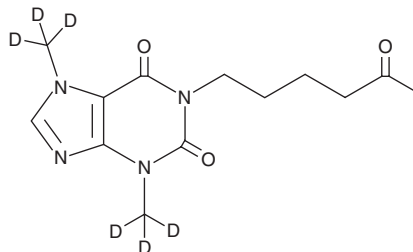
PRODUCT INFORMATION



Pentoxifylline-d₆

Item No. 33244

CAS Registry No.: 1185879-03-1
Formal Name: 3,7-dihydro-3,7-di(methyl-d₃)-1-(5-oxohexyl)-1H-purine-2,6-dione
Synonym: Oxpentifylline-d₆
MF: C₁₃H₁₂D₆N₄O₃
FW: 284.3
Chemical Purity: ≥98% (Pentoxifylline)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₆); ≤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

Pentoxifylline-d₆ is intended for use as an internal standard for the quantification of pentoxifylline (Item No. 18720) 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).

Pentoxifylline-d₆ is supplied as a solid. A stock solution may be made by dissolving the pentoxifylline-d₆ in the solvent of choice, which should be purged with an inert gas. Pentoxifylline-d₆ is soluble in methanol, DMSO, and acetonitrile.

Description

Pentoxifylline is a hemorrheologic agent.¹ It increases the deformability of washed isolated human erythrocytes when used at a concentration of 100 μM.² Pentoxifylline (1, 2, and 3 mM) inhibits ADP-induced platelet aggregation in isolated human whole blood.³ It inhibits thrombus formation induced by ADP in a hamster cheek pouch model when administered at doses of 5, 10, and 20 mg/kg.⁴ Formulations containing pentoxifylline have been used in the treatment of intermittent claudication.

References

1. Ward, A. and Clissold, S.P. Pentoxifylline. A review of its pharmacodynamic and pharmacokinetic properties, and its therapeutic efficacy. *Drugs* **34**(1), 50-97 (1987).
2. Słoczyńska, K., Kózka, M., Pękala, E., *et al.* *In vitro* effect of pentoxifylline and lisofylline on deformability and aggregation of red blood cells from healthy subjects and patients with chronic venous disease. *Acta Biochim. Pol.* **60**(1), 129-135 (2013).
3. Magnusson, B., Gunnarsson, M., Berntorp, E., *et al.* Effects of pentoxifylline and its metabolites on platelet aggregation in whole blood from healthy humans. *Eur. J. Pharmacol.* **581**(3), 290-295 (2008).
4. Michal, M., Giessinger, N., and Schröer, R. Reduced thrombus formation in vivo after administration of pentoxifylline (Trental). *Thromb. Res.* **56**(3), 359-368 (1989).

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, 04/02/2021

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