



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) 

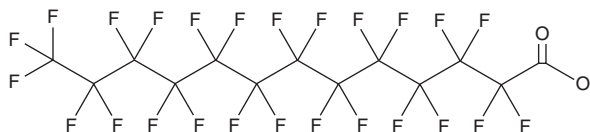
PRODUCT INFORMATION



Perfluorotridecanoic Acid

Item No. 37256

CAS Registry No.: 72629-94-8
Formal Name: 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-pentacosafuorotridecanoic acid
Synonym: PFTrDA
MF: C₁₃HF₂₅O₂
FW: 664.1
Purity: ≥80%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

Perfluorotridecanoic acid (PFTrDA) is supplied as a solid. A stock solution may be made by dissolving the PFTrDA in the solvent of choice, which should be purged with an inert gas. PFTrDA is slightly soluble in ethanol.

Description

PFTrDA is a perfluoroalkyl substance (PFAS). Embryo larval exposure of PFTrDA induces yolk sac edema and increases mRNA expression of thyroid hormone synthesis genes, including *tshβ*, in zebrafish when used at concentrations of 0.1 and 0.3 mg/L, respectively.¹ PFTrDA (10 mg/kg) decreases serum testosterone and luteinizing hormone levels, testis palmitic acid (Item No. 10006627), linoleic acid (Item Nos. 90150 | 90150.1 | 21909), and oleic acid (Item Nos. 90260 | 24659) levels, and the number of Leydig cells in rats in late puberty.² Maternal plasma levels of PFTrDA during gestation are positively associated with the development of eczema in female, but not male, infants, and liver levels of PFTrDA are higher in cancerous human livers compared with non-cancerous human livers.^{3,4} It has been found in marine mammals.⁵

References

1. Kim, J., Lee, G., Lee, Y.-M., *et al.* Thyroid disrupting effects of perfluoroundecanoic acid and perfluorotridecanoic acid in zebrafish (*Danio rerio*) and rat pituitary (GH3) cell line. *Chemosphere* **262**, 128012 (2021).
2. Zou, C., Yan, H., Wen, Z., *et al.* Perfluorotridecanoic acid inhibits Leydig cell maturation in male rats in late puberty via changing testicular lipid component. *Chem. Res. Toxicol.* **34(6)**, 1542-1555 (2021).
3. Okada, E., Sasaki, S., Kashino, I., *et al.* Prenatal exposure to perfluoroalkyl acids and allergic diseases in early childhood. *Environ. Int.* **65**, 127-134 (2014).
4. Liu, Y., Lin, N., Dai, C., *et al.* Occurrence and distribution of per- and polyfluoroalkyl substances (PFASs) in human livers with liver cancer. *Environ. Res.* **202**, 111775 (2021).
5. Rotander, A., Kärroman, A., van Bavel, B., *et al.* Increasing levels of long-chain perfluorocarboxylic acids (PFCAs) in Arctic and North Atlantic marine mammals, 1984-2009. *Chemosphere* **86(3)**, 278-285 (2012).

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, 01/10/2023

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