



# 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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

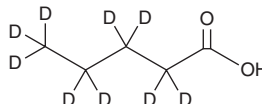
[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# PRODUCT INFORMATION



## Pentanoic Acid-d<sub>9</sub> Item No. 28870

**CAS Registry No.:** 115871-50-6  
**Synonyms:** C<sub>5</sub>:0-d<sub>9</sub>, Valeric Acid-d<sub>9</sub>  
**MF:** C<sub>5</sub>HD<sub>9</sub>O<sub>2</sub>  
**FW:** 111.2  
**Purity:** ≥98%  
**Supplied as:** A liquid  
**Storage:** -20°C  
**Stability:** ≥2 years



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

### Laboratory Procedures

Pentanoic acid-d<sub>9</sub> is supplied as a liquid. A stock solution may be made by dissolving the pentanoic acid-d<sub>9</sub> in the solvent of choice, which should be purged with an inert gas. Pentanoic acid-d<sub>9</sub> is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of pentanoic acid-d<sub>9</sub> in these solvents is approximately 30 mg/ml.

### Description

Pentanoic acid-d<sub>9</sub> is intended for use as an internal standard for the quantification of pentanoic acid by GC- or LC-MS. Pentanoic acid is a short-chain saturated fatty acid. It has been found in the essential oil of *V. alliariifolia* and in goat milk.<sup>1,2</sup> The levels of pentanoic acid are higher in stool samples from patients with colorectal cancer.<sup>3</sup>

### References

1. Bardakci, H., Demirci, B., Yesilada, E., *et al.* Chemical composition of the essential oil of the subterranean parts of valeriana alliariifolia. *Rec. Nat. Prod.* **6(1)**, 89-92 (2012).
2. Sant'Ana, A.M.S., Bessa, R.J.B., Alves, S.P., *et al.* Fatty acid, volatile and sensory profiles of milk and cheese from goats raised on native semiarid pasture or in confinement. *Int. Dairy J.* **91**, 147-154 (2018).
3. Wang, X., Wang, J., Rao, B., *et al.* Gut flora profiling and fecal metabolite composition of colorectal cancer patients and healthy individuals. *Exp. Ther. Med.* **13(6)**, 2848-2854 (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, 10/30/2019

#### 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