



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### 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) 

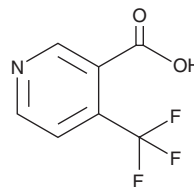
# PRODUCT INFORMATION



## 4-(Trifluoromethyl)nicotinic Acid

Item No. 36479

**CAS Registry No.:** 158063-66-2  
**Formal Name:** 4-(trifluoromethyl)-3-pyridinecarboxylic acid  
**Synonym:** TFNA  
**MF:** C<sub>7</sub>H<sub>4</sub>F<sub>3</sub>NO<sub>2</sub>  
**FW:** 191.1  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 267 nm  
**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

4-(Trifluoromethyl)nicotinic acid (TFNA) is supplied as a solid. A stock solution may be made by dissolving the TFNA in the solvent of choice, which should be purged with an inert gas. TFNA is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of TFNA in these solvents is approximately 25, 10, and 50 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of TFNA can be prepared by directly dissolving the solid in aqueous buffers. The solubility of TFNA in PBS (pH 7.2) is approximately 2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

TFNA is a metabolite of the pyridinecarboxamide insecticide flonicamid (Item No. 25608).<sup>1</sup> It is also a synthetic intermediate in the synthesis of carboxamide fungicides.<sup>2</sup>

### References

1. Wang, Y., Qin, J., Lu, Q., *et al.* Residue detection and correlation analysis of multiple neonicotinoid insecticides and their metabolites in edible herbs. *Food Chem. X* **17**, 100603 (2023).
2. Yang, Z., Liu, Q., Sun, Y., *et al.* Novel aromatic carboxamides from dehydroabietylamine as potential fungicides: Design, synthesis and antifungal evaluation. *Arabian J. Chem.* **15(12)**, 104330 (2022).

#### 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.

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#### 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