



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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)



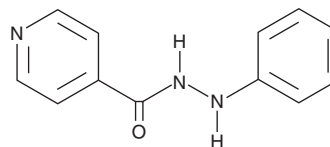
# PRODUCT INFORMATION



## PluriSln 1

Item No. 16161

**CAS Registry No.:** 91396-88-2  
**Formal Name:** 2-phenylhydrazide-4-pyridinecarboxylic acid  
**Synonyms:** N'-phenyl-hydrazine-Isonicotinic acid,  
NSC 14613  
**MF:** C<sub>12</sub>H<sub>11</sub>N<sub>3</sub>O  
**FW:** 213.2  
**Purity:** ≥95%  
**UV/Vis.:** λ<sub>max</sub>: 235, 271 nm  
**Supplied as:** A crystalline 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

PluriSln 1 is supplied as a crystalline solid. A stock solution may be made by dissolving the PluriSln 1 in the solvent of choice, which should be purged with an inert gas. PluriSln 1 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of PluriSln 1 in ethanol is approximately 20 mg/ml and approximately 30 mg/ml in DMSO and DMF.

PluriSln 1 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, PluriSln 1 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. PluriSln 1 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

PluriSln 1 is an N-acyl phenylhydrazine derivative that inhibits stearyl-CoA desaturase, a key enzyme for lipid metabolism that is expressed in human pluripotent stem cells (hPSCs).<sup>1</sup> PluriSln 1 can selectively induce ER stress, attenuate protein synthesis, and induce apoptosis in hPSCs (EC<sub>50</sub> = 2 μM) while sparing progenitor and differentiated cells.<sup>1</sup> Because PluriSln 1 can selectively eliminate undifferentiated hPSCs, it was developed as a strategy to prevent tumorigenic risk from residual undifferentiated cells used during stem cell therapy. In immunocompromised mice, PluriSln 1 has been shown to effectively prevent teratoma formation from undifferentiated hPSCs.<sup>1</sup>

### References

1. Ben-David, U., Gan, Q.-F., Golan-Lev, T., *et al.* Selective elimination of human pluripotent stem cells by an oleate synthesis inhibitor discovered in a high-throughput screen. *Cell Stem Cell* **12**(2), 167-179 (2013).

#### 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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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.

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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](http://WWW.CAYMANCHEM.COM)