



# 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](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



**STF-118804**  
Item No. 15283

**CAS Registry No.:** 894187-61-2

**Formal Name:** 4-[5-methyl-4-[[[(4-methylphenyl)sulfonyl]methyl]-2-oxazolyl]-N-(3-pyridinylmethyl)-benzamide

**MF:** C<sub>25</sub>H<sub>23</sub>N<sub>3</sub>O<sub>4</sub>S

**FW:** 461.5

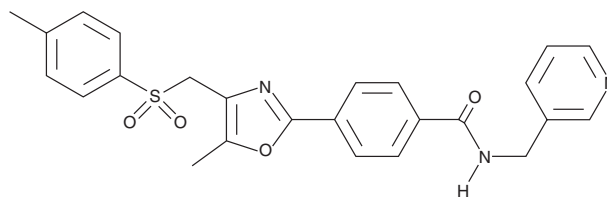
**Purity:** ≥95%

**UV/Vis.:** λ<sub>max</sub>: 222, 300 nm

**Supplied as:** A crystalline solid

**Storage:** -20°C

**Stability:** As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



## Laboratory Procedures

STF-118804 is supplied as a crystalline solid. A stock solution may be made by dissolving the STF-118804 in the solvent of choice. STF-118804 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of STF-118804 in these solvents is approximately 1, 20, and 25 mg/ml, respectively.

STF-118804 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, STF-118804 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. STF-118804 has a solubility of approximately 0.2 mg/ml in a 1:5 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

## Description

Nicotinamide phosphoribosyltransferase (Nampt) converts nicotinamide into nicotinamide mononucleotide (NMN), which is subsequently converted to NAD<sup>+</sup> by NMN adenylyltransferase. Cancer cells commonly have an unusually high rate of NAD<sup>+</sup> turnover, suggesting that inhibition of Nampt might selectively target cancer cells. STF-118804 is a small molecule inhibitor of Nampt (IC<sub>50</sub>s = 3-6 nM) that prevents NAD<sup>+</sup> synthesis from nicotinamide.<sup>1</sup> It inhibits the viability of multiple B-cell acute lymphoblastic leukemia (B-ALL) cell lines with nanomolar potency and induces apoptosis in MV4-11 cells.<sup>1</sup> At 50 mg/kg for 20 days, STF-118804 has been shown to improve survival in an orthotopic xenotransplant model of high-risk ALL in mice.<sup>1</sup> It has also been shown to target leukemia stem cells.<sup>1</sup>

## References

1. Matheny, C.J., Wei, M.C., Bassik, M.C., *et al.* Next-generation NAMPT inhibitors identified by sequential high-throughput phenotypic chemical and functional genomic screens. *Chem. Biol.* **20**, 1352-1363 (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.

### 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, 04/27/2016

## 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