

Product Name: STF 118804

Catalog No.: 5207

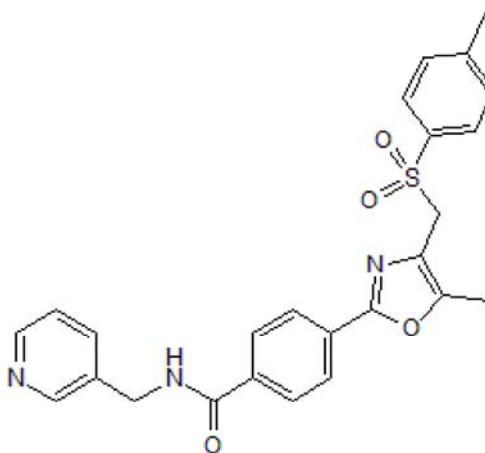
Batch No.: 1

CAS Number: 894187-61-2

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₃N₃O₄S
Batch Molecular Weight: 461.53
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 5 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.06	5.02	9.1
Found	64.68	4.98	9.17

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

NAMPT inhibitor (nicotinamide phosphoribosyltransferase, visfatin, PBEF1); inhibits NAD⁺ synthesis from nicotinamide. Potently inhibits the viability of multiple B-cell acute lymphoplastic leukemia (B-ALL) cell lines (IC₅₀ < 10 nM); induces apoptosis in MF-411 cells. Induces regression of ALL xenografts and eliminates leukemia stems cells from bone marrow in mice.

Physical and Chemical Properties:

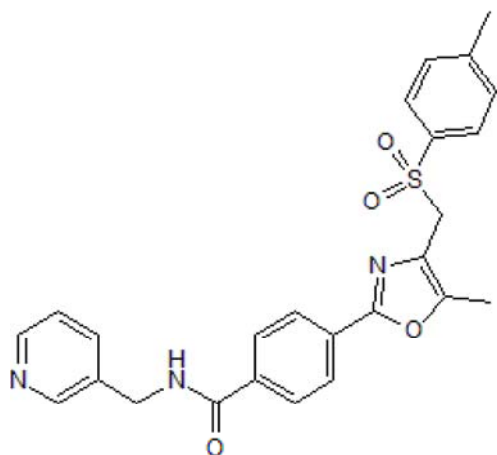
Batch Molecular Formula: C₂₅H₂₃N₃O₄S

Batch Molecular Weight: 461.53

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 5 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Matheny et al (2013) Next-generation NAMPT inhibitors identified by sequential high-throughput phenotypic chemical and functional genomic screens. *Chem.Biol.* **20** 1352. PMID: 24183972.

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