

Product Name: AMZ 30

Catalog No.: 6923

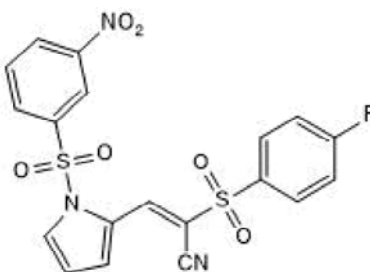
Batch No.: 1

CAS Number: 1313613-09-0

IUPAC Name: (2E)-2-[(4-Fluorophenyl)sulfonyl]-3-[1-[(3-nitrophenyl)sulfonyl]-1H-pyrrol-2-yl]-2-propenenitrile

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₂FN₃O₆S₂.
Batch Molecular Weight: 461.45
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
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	49.46	2.62	9.11
Found	49.35	2.59	9.04

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

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Description:

AMZ 30 is a potent, selective and irreversible inhibitor of protein phosphatase methylesterase-1 (PME-1; IC₅₀ = 600 nM) with > 100-fold selectivity for PME-1 over other serine hydrolases in human cell lysates. AMZ 30 inactivates PME-1 and reduces the demethylated form of serine/threonine protein phosphatase 2A (PP2A) in HEK 293T cells. AMZ 30 perturbs leucine carboxyl methyltransferase-1 (LCMT1)-PME-1 methylation equilibrium leading to shortening of mitotic spindles and mitotic arrest in HeLa cells. It also shows antiproliferative properties in an in vitro model of endometrial carcinoma.

Physical and Chemical Properties:

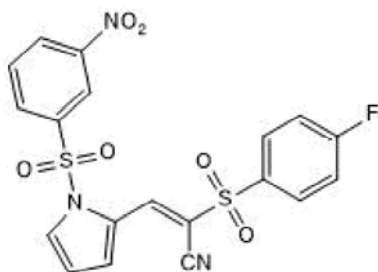
Batch Molecular Formula: C₁₉H₁₂FN₃O₆S₂.

Batch Molecular Weight: 461.45

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Elgenaidi et al (2019) Regulation of the phosphoprotein phosphatase 2A system and its modulation during oxidative stress: A potential therapeutic target? *Pharmacol.Ther.* **198** 68. PMID: 30797822.

Xia et al (2015) A LCMT1-PME-1 methylation equilibrium controls mitotic spindle size. *Cell Cycle* **14** (12) 1938. PMID: 25839665.

Bachovchin et al (2011) Discovery and optimization of sulfonyl acrylonitriles as selective, covalent inhibitors of protein phosphatase methylesterase-1. *J.Med.Chem.* **54** (14) 5229. PMID: 21639134.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

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.

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