

## Certificate of Analysis

[www.tocris.com](http://www.tocris.com)

**Product Name:** PF 5081090

**Catalog No.:** 4362

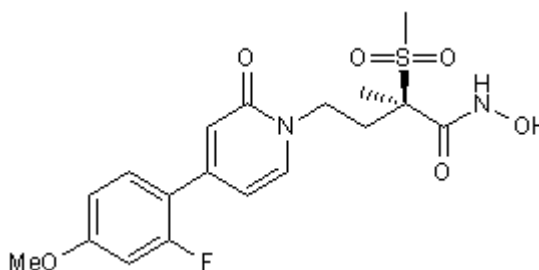
**Batch No.:** 1

**CAS Number:** 1312473-63-4

**IUPAC Name:** ( $\alpha R$ )-4-(2-Fluoro-4-methoxyphenyl)-N-hydroxy- $\alpha$ -methyl- $\alpha$ -(methylsulfonyl)-2-oxo-1(2H)-pyridinebutanamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>18</sub>H<sub>21</sub>FN<sub>2</sub>O<sub>6</sub>S  
**Batch Molecular Weight:** 412.43  
**Physical Appearance:** Beige solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	52.42	5.13	6.79
Found	52.31	5.14	6.76

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

## Product Information

[www.tocris.com](http://www.tocris.com)

**Product Name:** PF 5081090

**Catalog No.:** 4362

**Batch No.:** 1

**CAS Number:** 1312473-63-4

**IUPAC Name:** (*αR*)-4-(2-Fluoro-4-methoxyphenyl)-*N*-hydroxy-*α*-methyl-*α*-(methylsulfonyl)-2-oxo-1(2*H*)-pyridinebutanamide

### Description:

Potent antibacterial agent which disrupts lipid bilayer synthesis through inhibition of LpxC (IC<sub>50</sub> = 1.1 nM in *Pseudomonas aeruginosa*); effective against a range of gram negative bacteria.

### Physical and Chemical Properties:

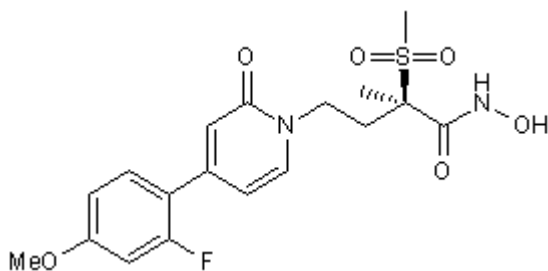
Batch Molecular Formula: C<sub>18</sub>H<sub>21</sub>FN<sub>2</sub>O<sub>6</sub>S

Batch Molecular Weight: 412.43

Physical Appearance: Beige solid

**Minimum Purity:** >98%

### Batch Molecular Structure:



**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.

### References:

**Montgomery** *et al* (2012) Pyridone methylsulfone hydroxamate LpxC inhibitors for the treatment of serious gram-negative infections. *J.Med.Chem.* **55** (4) 1662. PMID: 22257165.

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

#### bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

#### North America

Tel: (800) 343 7475

#### China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

#### Europe Middle East Africa

Tel: +44 (0)1235 529449

#### Rest of World

[www.tocris.com/distributors](http://www.tocris.com/distributors)

Tel: +1 612 379 2956