

Product Name: AZ 10397767

Catalog No.: 5872

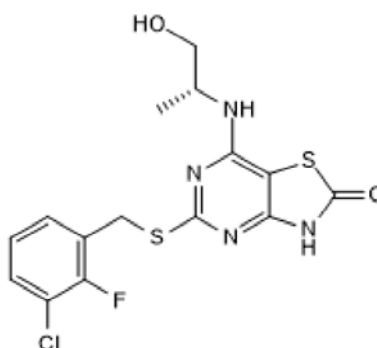
Batch No.: 1

CAS Number: 333742-63-5

IUPAC Name: 5-[[[3-Chloro-2-fluorophenyl)methyl]thio]-7-[[[(1*R*)-2-hydroxy-1-methylethyl]amino]thiazolo[4,5-*d*]pyrimidin-2(3*H*)-one

1. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|---|
| Batch Molecular Formula: | C ₁₅ H ₁₄ ClFN ₄ O ₂ S ₂ |
| Batch Molecular Weight: | 400.88 |
| Physical Appearance: | Pale orange solid |
| Solubility: | DMSO to 100 mM |
| Storage: | Store at -20°C |
| Batch Molecular Structure: | |



2. ANALYTICAL DATA

| | |
|---------------------------|---|
| TLC: | R _f = 0.48 (Dichloromethane:Methanol [85:15]) |
| HPLC: | Shows >99.5% purity |
| Chiral HPLC: | Shows 100% purity |
| ¹H NMR: | Consistent with structure |
| Mass Spectrum: | Consistent with structure |
| Optical Rotation: | [α] _D = -14.4 (Concentration = 1, Solvent = DMF) |
| Microanalysis: | |

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 44.94 | 3.52 | 13.97 |
| Found | 11.68 | 3.49 | 13.76 |

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

Product Name: AZ 10397767

Catalog No.: 5872

Batch No.: 1

CAS Number: 333742-63-5

IUPAC Name: 5-[[[(3-Chloro-2-fluorophenyl)methyl]thio]-7-[[[(1R)-2-hydroxy-1-methylethyl]amino]thiazolo[4,5-d]pyrimidin-2(3H)-one

Description:

Potent CXCR2 antagonist ($IC_{50} = 1 \text{ nM}$); attenuates oxaliplatin-induced NF- κ B activation, increases oxaliplatin cytotoxicity, and potentiates oxaliplatin-induced apoptosis in AIPC cells. Reduces the numbers of neutrophils infiltrating into tumors in both *in vitro* and *in vivo* models and delayed tumor growth. Orally bioavailable.

Physical and Chemical Properties:

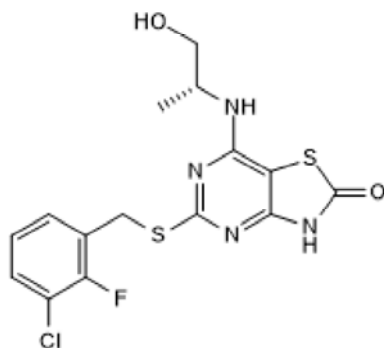
Batch Molecular Formula: $C_{15}H_{14}ClFN_4O_2S_2$

Batch Molecular Weight: 400.88

Physical Appearance: Pale orange 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:

Tazzyman et al (2011) Inhibition of neutrophil infiltration into A549 lung tumors *in vitro* and *in vivo* using a CXCR2-specific antagonist is associated with reduced tumor growth. *Int.J.Cancer* **129** 847. PMID: 21328342.

Walters et al (2008) Evaluation of a series of bicyclic CXCR2 antagonists. *Bioorg.Med.Chem.Lett.* **18** 798. PMID: 18240390.

Wilson et al (2008) Chemotherapy-induced CXC-chemokine/CXC-chemokine receptor signaling in metastatic prostate cancer cells confers resistance to oxaliplatin through potentiation of nuclear factor-kappaB transcription and evasion of apoptosis. *J.Pharmacol.Exp.Ther.* **327** 746. PMID: 18780829.

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
Tel:+1 612 379 2956