

ZM-306416

Kinase Inhibitor

Catalog # F11-900B

Lot # T4382-9 CAS # 690206-97-4

Product Description

Molecular Formula: C₁₆H₁₃ClFN₃O₂ Appearance: Off-white powder

Melting Point: N/A Molecular Weight: 333.7

Purity: >98% (TLC); NMR (Conforms)

Solubilization: May be dissolved in DMSO (3 mg/ml); or

ethanol (1 mg/ml)

Alias

4-[(4'-Chloro-2'-fluoro) phenylamino]-6,7dimethoxyquinazoline

Specific Activity

VEGFR inhibitor

Storage and Stability

Store desiccated as supplied at ambient temperature for up to 2 years. Store solutions at -20°C for up to 3 months.

Scientific Background

Potent inhibitor of VEGF receptor tyrosine kinase, inhibiting KDR (IC₅₀ = 100 nM) and FIt (IC₅₀ = 2 μ M). Displays ca 4-fold selectivity over FGFR-1. Orally active (100 mg/kg, rat) (1). More recently identified in a highcontent biosensor-based screen as also inhibiting EGFR (2). Has also been employed as a PGF/FLT1 inhibitor (3)

References

1. LF Hennequin et al J. Med. Chem. 1999 42:5369

2. C Antczak et al J. Biomol. Screen. 2012 17:885

3. W-B Wu et al Reproduction 2017 154:319

Catalog #

Aliquot Size

F11-900B-05 F11-900B-25

5 mg 25 mg

Molecular Structure

ZM-306416

Kinase Inhibitor

Catalog # CAS# Lot # Purity

Format Solubilization

Storage & Shipping

F11-900B 690206-97-4 T4382-9

>98% (TLC); NMR conforms Lyophilized powder

May be dissolved in DMSO (3 mg/ml);

or ethanol (1 mg/ml)

Store desiccated as supplied at ambient temperature for up to 2 years. Store solutions at -20°C for up to 3

months.

SAFETY DATA SHEET

Article 1 - Identification of the Substance

Product Name: ZM-306416 Catalog # F11-900B

This product is sold only for research use by qualified laboratory personnel, and is not to be used as a drug, medical device, food additive, cosmetic, nor household chemical. It is not to be used in diagnostic, therapeutic, consumer, agricultural, nor pesticidal applications.

Manufacturer's Name: SignalChem Biotech Inc.
Street Address: 110-13120 Vanier Place
City, Prov. Postal Code: Richmond, BC, V6V 2J2

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Article 2 - Hazardous Identification

2.1 Classification of Substance (GHS)

Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2
Specific target organ toxicity – (single exposure) Category 3

2.2 Label Elements

Classification according to Regulation (EC) No 1272/2008



CHSO

GHS Signal Word: WARNING

GHS Hazard Phrases:

| H315 | Causes skin irritation. |
|------|----------------------------------|
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation |

GHS Precaution Phrases:

| P260 | Do not breathe dust/fume/gas/mist/vapors/spray | |
|------|--|--|
| P264 | Wash hands thoroughly after handling. | |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. | |

GHS Response Phrases:

| | | |
|----------------|---|--|
| P302+352 | IF ON SKIN: Wash with plenty of soap and water. | |
| P304+340 | IF INHALED: Remove victim to fresh air and keep at rest in a position | |
| | comfortable for breathing. | |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact | |
| | lenses, if present and easy to do. Continue rinsing. | |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. | |
| P308+313 | IF exposed or concerned: Get medical attention/advice. | |
| P332+313 | If skin irritation occurs, get medical advice/attention. | |
| P362+364 | Take off contaminated clothing and wash it before reuse. | |

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal Information

2.3 Adverse Human Health Effects and Symptoms: Causes serious eye irritation. Causes skin irritation. Material may be irritating to mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption. May cause respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Article 3 - Composition/Information on Ingredients

3.1 Substance

Product Name(s): ZM-306416

Chemical Name: 4-[(4'-Chloro-2'-fluoro) phenylamino]-6,7-dimethoxyquinazoline

Molecular Formula: $C_{16}H_{13}CIFN_3O_2$

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CAS Number: 690206-97-4 **Concentration:** 100%

Article 4 - First Aid

4.1 Description of First Aid Measures

General: Move out of dangerous area and contact a doctor. Provide them with this data sheet.

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

Article 5 – Fire Fighting Measures

5.1 Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use water spray to cool fire-exposed containers. A solid water stream may be inefficient.

5.2 Special Hazards

No data available.

5.3 Precautions for Fire Fighters

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Article 6 – Accidental Release Measures

6.1 Personal Precautions

Avoid raising and breathing dust, and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 Environmental Precautions

Take steps to avoid release into the environment, if safe to do so.

6.3 Methods for Containment and Clean-up

Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulations.

Article 7 - Handling and Storage

7.1 Handling Precautions

Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.

7.2 Safe Storage Measures

Keep container tightly closed. Store in accordance with information listed on this data sheet.

Article 8 – Exposure Controls/Personal Protection

8.1 Control Parameters

Contains no substances with occupational exposure limit values.

8.2 Specific Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

8.3 Personal Protection

Eye/Face Protection: Use safety glasses.

Skin Protection: Use chemical resistant gloves. Remove and dispose of gloves properly after use. Wash hands thoroughly after use.

Body Protection: Wear a lab coat.

Respiratory Protection: NIOSH approved respirator, as conditions warrant.

Article 9 – Physical and Chemical Properties

Appearance: Off-white powder
Odour: data not available

Odour Threshold: data not available

pH: data not available

Melting/Freezing Pt: data not available

Boiling Pt: data not available **Flash Pt:** data not available

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Explosive Properties: data not available

Solubility notes: May be dissolved in DMSO (3 mg/ml); or ethanol (1 mg/ml)

Article 10 - Stability and Reactivity

10.1 Stability: Stable under recommended transport or storage conditions

10.2 Conditions to Avoid: No data available.

10.3 Incompatibility - Materials to Avoid: Strong oxidizing agents

10.4 Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, hydrogen fluoride, nitrogen oxides, phosgene.

Article 11– Toxicological Information

11.1 Toxicological Effects: The toxicological effects of this product have not been thoroughly studied.

Acute Toxicity: data not available
Chronic Toxicity: data not available
Skin Corrosion/Irritation: data not available
Eye Damage/Irritation: data not available

Respiratory or Skin Sensitization: data not available Germ Cell Mutagenicity: data not available Carcinogenicity: None according to NIOSH

Article 12 - Ecological Information

12.1 Toxicity

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

12.2 Degradability

Data not available

Article 13 - Disposal Considerations

13.1 Waste Treatment

Dispose in accordance with local, state, and federal regulations.

Article 14 – Transport Information

14.1 DOT

Not dangerous goods

14.2 IMDG

Not dangerous goods

14.2 IATA

Not dangerous goods

Article 15 - Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Article 16 – Other Information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. SignalChem shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalog for additional terms and conditions of sale.