



Catalog # Aliquot Size

F17-901C-5 5 mg
F17-901C-25 25 mg

INK-128

mTOR Inhibitor

Catalog # F17-901C

Lot # N3365-9

CAS# 1224844-38-5

Product Description

Molecular Formula: C₁₅H₁₅N₇O

Appearance: Off-white powder

Molecular Weight: 309.3

Purity: >98% (HPLC, TLC); NMR (conforms)

Solubility: May be dissolved DMSO (25 mg/ml)

Alternative name(s)

3-(2-amino-5-benzoxazolyl)-1-(1-methylethyl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine; MLN-0128

Storage and Stability

Store desiccated as supplied at -20°C for up to 2 years.

Store solutions at -20°C for up to 3 months.

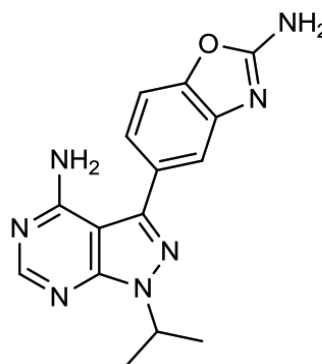
Scientific Background

A potent and selective, ATP-competitive inhibitor of mTOR kinase, K_i = 1.4 nM (1). Inhibits growth and proliferation of various breast cancer cell lines and human endothelial cells (2).

References

1. AC Hsieh et al. Nature 2012 485:55
2. Y Gokmen-Polar et al. Breast Cancer Res. Treat. 2012 136:673

Molecular Structure



INK-128

mTOR Inhibitor

Catalog #

CAS #

Lot #

Purity

Format

Solubility

Storage & Shipping

F17-901C

1224844-38-5

N3365-9

>98% (HPLC, TLC); NMR (conforms)

Off-white powder

May be dissolved in DMSO (25 mg/ml)

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

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or by email: orders@signalchem.com or IVD@signalchem.com - www.signalchem.com

FOR IN VITRO RESEARCH PURPOSES ONLY. NOT INTENDED FOR USE IN HUMAN OR ANIMALS.

SAFETY DATA SHEET

Article 1 – Identification of the Substance

Product Name: INK-128**Catalog # F17-901C**

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
Fax: 604-232-4601
EMERGENCY PHONE: 604-232-4600

Article 2 - Hazardous Identification

2.1 Classification of Substance (GHS)

The substance is not classified according to the Globally Harmonized System (GHS).

2.2 Label Elements

None.

GHS Signal Word: None

GHS Hazard Phrases: None

GHS Precaution Phrases: None

GHS Response Phrases: None

GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal Information

2.3 Other hazards: 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): INK-128
Chemical Name: 3-(2-amino-5-benzoxazolyl)-1-(1-methylethyl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine
Molecular Formula: C₁₅H₁₅N₇O
CAS Number: 1224844-38-5
Concentration: 100%

Article 4 – First Aid

4.1 Description of First Aid Measures

General: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally, the product does not irritate the skin.

After eye contact: Rinse opened eyes for several minutes under running water.

After swallowing: If symptoms persist, consult doctor.

4.2 Important Symptoms and Effects: May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.

Article 5 – Fire Fighting Measures

5.1 Extinguishing Media

Use fire-fighting measures that suit the environment. A solid water stream may be inefficient.

5.2 Special Hazards

No further relevant information available.

5.3 Precautions for Fire Fighters

No special measures required.

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SAFETY DATA SHEET

Article 6 – Accidental Release Measures

6.1 Personal Precautions

Not required.

6.2 Environmental Precautions

Do not allow to enter sewers/surface or ground water.

6.3 Methods for Containment and Clean-up

Pick up mechanically.

Article 7 – Handling and Storage

7.1 Handling Precautions

No special measures required.

7.2 Safe Storage Measures

Store in accordance with information listed on the product insert.

Article 8 – Exposure Controls/Personal Protection

8.1 Control Parameters

Contains no substances with occupational exposure limit values.

8.2 Specific Engineering Controls

Not required.

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: If risk is present wear a dust respirator.

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

Explosive Properties: data not available

Solubility notes: May be dissolved DMSO (25 mg/ml)

Article 10 – Stability and Reactivity

10.1 Stability: Stable under recommended transport or storage conditions

10.2 Conditions to Avoid: Moist and hot conditions

10.3 Incompatibility – Materials to Avoid: Strong oxidizing agents

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

Article 11– Toxicological Information

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

Acute Toxicity: None.

Chronic Toxicity: None.

Skin Corrosion/Irritation: No irritant effect.

Eye Damage/Irritation: No irritating effect.

Respiratory or Skin Sensitization: No sensitizing effects known.

Germ Cell Mutagenicity: data not available

Carcinogenicity: None according to NIOSH

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SAFETY DATA SHEET

Article 12 – Ecological Information

12.1 Toxicity

Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.2 Degradability

Data not available

Article 13 – Disposal Considerations

13.1 Waste Treatment

Product and Contaminated Packaging: Dispose according to national legislation. Contact a licensed chemical disposal company.

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.

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