

Pexidartinib (PLX3397) SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Pexidartinib (PLX3397)
- **Catalog Number:** S7818
- **CAS Number:** 1029044-16-3
- **IUPAC Name:**
N-[5-[(5-chloro-1H-pyrrolo[2,3-b]pyridin-3-yl)methyl]-2-pyridinyl]-6-(trifluoromethyl)-3-pyridinemethanamine

Relevant identified uses and uses advised against

- **Identified uses:** For research and development use only; laboratory chemicals; manufacture of substances.
- **Uses advised against:** Not for pharmaceutical, household, or other unapproved uses.

Details of the supplier

- **Company :** Selleck Chemicals
- **TollFree :** +1 877 796-6397
- **Tel :** +1 832 582-8158
- **Fax :** +1 832 582-8590

Emergency telephone number

- **Emergency phone #:** +1 832 582-8158

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

This substance does not meet the classification criteria of EC Directives 67/548/EEC, 1999/45/EC, or 1272/2008.

2.2 Label elements

The product does not require labeling in accordance with EC directives or respective national laws.

2.3 Other hazards

None identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

- **Product Name:** Pexidartinib

• **Chemical Name:**

N-[5-[(5-chloro-1H-pyrrolo[2,3-b]pyridin-3-yl)methyl]-2-pyridinyl]-6-(trifluoromethyl)-3-pyridinemethanamine

• **Formula:** C₂₀H₁₅ClF₃N₅

• **Molecular Weight:** 417.82

• **CAS Number:** 1029044-16-3

4. FIRST AID MEASURES

4.1 Description of first aid measures

• **General Advice:** Consult a physician and present this safety data sheet.

• **If Inhaled:** Move the individual to fresh air and monitor breathing. If breathing is difficult, administer oxygen; if breathing ceases, perform artificial respiration. Consult a physician.

• **In Case of Skin Contact:** Immediately wash the affected area with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes, ensuring they are washed before reuse. Consult a physician.

• **In Case of Eye Contact:** Flush eyes with copious amounts of water for at least 15 minutes and consult a physician.

• **If Swallowed:** Rinse the mouth with water. Do not induce vomiting unless instructed by medical personnel. Never give anything by mouth to an unconscious person. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of immediate medical attention and special treatment needed

Immediate medical attention is required. Show this safety data sheet to the attending physician.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Combustion may result in the emission of toxic fumes.

5.3 Precautions for fire-fighters

Wear suitable protective clothing and a self-contained breathing apparatus to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing (refer to Section 8). Evacuate personnel to safe areas and ensure adequate ventilation. Avoid breathing vapors, mist, powder, or gas.

6.2 Environmental precautions

Prevent the product from entering drains.

6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Sweep up the powder and place it in an appropriate container for disposal as described in Section 13.

6.4 Reference to other sections

Refer to Section 8 for personal protective equipment and Section 13 for disposal instructions.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Use within a chemical fume hood with an independent air supply. Avoid inhalation and contact with eyes, skin, and clothing. Avoid the formation of powder and aerosols. Use in a well-ventilated area and keep away from sources of ignition. Avoid prolonged or repeated exposure.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated area away from direct sunlight. Keep the container tightly sealed until use. Recommended storage temperature is -20°C.

7.3 Specific end uses

Use in a laboratory fume hood where possible. Refer to the employer's COSHH risk assessment.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

- **Appropriate Engineering Controls:** Use in a fume hood. Ensure the laboratory is equipped with a safety shower and eye wash station.
- **Eye/Face Protection:** Use appropriate safety glasses.
- **Skin Protection:** Use chemical-resistant gloves (minimum requirement BS EN 374:2003). Inspect gloves before use and wash/dry hands thoroughly after handling.
- **Body Protection:** Wear appropriate protective clothing.
- **Respiratory Protection:** Use a suitable respirator if indicated by risk assessment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- **Appearance:** powder
- **Odor:** N/A
- **Odor Threshold:** N/A

- **pH:** N/A
- **Melting / Freezing Point:** N/A
- **Boiling Point / Range:** N/A
- **Flash Point:** N/A
- **Evaporation Rate:** N/A
- **Flammability (solid, gas):** N/A
- **Upper / Lower Flammability or Explosive Limits:** N/A
- **Vapor Pressure:** N/A
- **Vapor Density:** N/A
- **Relative Density:** N/A
- **Solubility(ies):** Soluble to 100 mM in DMSO
- **Partition Coefficient:** N/A
- **Auto-ignition Temperature:** N/A
- **Decomposition Temperature:** N/A
- **Viscosity:** N/A
- **Explosive Properties:** N/A
- **Oxidising Properties:** N/A

9.2 Other safety information

N/A.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur upon exposure to specific conditions or incompatible materials.

10.4 Conditions to avoid

Heat and moisture.

10.5 Incompatible materials

Strong acids/alkalis, strong oxidizing/reducing agents.

10.6 Hazardous decomposition products

In combustion, may emit toxic fumes. No known decomposition information is available.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- **Acute Toxicity:** N/A.
- **Skin Corrosion/Irritation:** Classification criteria not met.
- **Serious Eye Damage/Irritation:** Classification criteria not met.
- **Respiratory or Skin Sensitization:** Classification criteria not met.
- **Germ Cell Mutagenicity:** Classification criteria not met.
- **Carcinogenicity:** Classification criteria not met.
- **Reproductive Toxicity:** Classification criteria not met.
- **STOT - Single Exposure:** Classification criteria not met.
- **STOT - Repeated Exposure:** Classification criteria not met.
- **Aspiration Hazard:** Classification criteria not met.

Symptoms / Routes of Exposure

- **Inhalation:** Possible throat irritation and chest tightness.
- **Ingestion:** Possible throat irritation.
- **Skin:** Possible mild irritation at the site of contact.
- **Eyes:** Possible irritation and redness.
- **Delayed / Immediate Effects:** No known symptoms.

Additional Information

- **RTECS No:** Not available.
- Exposure may cause irritation of the eyes, mucous membranes, skin, and upper respiratory tract. The chemical, physical, and toxicological properties have not been fully investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

N/A.

12.2 Persistence and degradability

N/A.

12.3 Bioaccumulative potential

N/A.

12.4 Mobility in soil

N/A.

12.5 Results of PBT and vPvB assessment

N/A.

12.6 Other adverse effects

N/A.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

- **Product:** Transfer to a suitable container and arrange for collection by a specialized disposal company in accordance with national legislation.
- **Contaminated Packaging:** Dispose of in a regulated landfill site or via other methods for hazardous/toxic wastes in accordance with national legislation.

14. TRANSPORT INFORMATION

14.1 UN-Number

Does not meet the criteria for classification as hazardous for transport.

14.2 UN proper shipping name

Does not meet the criteria for classification as hazardous for transport.

14.3 Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

14.4 Packaging group

Does not meet the criteria for classification as hazardous for transport.

14.5 Environmental hazards

This product is not classified as environmentally hazardous according to the UN Model Regulations, nor is it a marine pollutant according to the IMDG Code.

14.6 Special precautions for users

N/A.

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

N/A

California Proposition 65

Not applicable

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

16. OTHER INFORMATION

Revision Date: 2026/05/28

Further Information: The information provided is believed to be correct but is not exhaustive and should be used only as a guideline based on current knowledge. It does not represent a guarantee of the properties of the product. Selleck Chemicals Corporation and its Affiliates shall not be held liable for any damage resulting from handling or contact with the product.