

SAFETY DATA SHEET:

Stemolecule LDN-193189



1. IDENTIFICATION

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|----------------------------|---|
| 1.1. Product name | Stemolecule™ LDN-193189 |
| 1.2. Catalog number | 04-0074, 04-0074-10 |
| 1.3. Uses and restrictions | For research use only. Not for use in diagnostic or therapeutic applications |
| 1.4. Manufacturer/Supplier | REPROCELL USA
9000 Virginia Manor Road
Beltsville, MD 20705
301-470-3362 |
| 1.5. In case of emergency | <ul style="list-style-type: none">• For medical emergencies, contact your local emergency center.• For transportation emergencies, contact your local transportation authorities.• For other non-medical or non-environmental emergencies please call (617) 245-0030, 8:00 am-4:00 pm EST, Monday – Friday. |

2. HAZARDS IDENTIFICATION

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| 2.1. GHS classification according to Annex II | Not a hazardous substance or mixture. |
| 2.2. Signal word | Not applicable. |
| 2.3. Symbol | Not applicable. |
| 2.4. Hazard statement(s) | Not applicable. |
| 2.5. Precautionary statement(s) | Not applicable. |
| 2.6. Hazards not otherwise classified (HNOC) or not covered by GHS | None. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

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|----------------------|---|
| 3.1 Chemical name | Stemolecule LDN-193189 |
| 3.2 Synonyms | 4-(6-(4-(piperazin-1-yl)phenyl)pyrazolo[1,5-a]pyrimidin-3-yl)quinoline hydrochloride; DM-3189 |
| 3.3 Chemical formula | C ₂₅ H ₂₂ N ₆ •HCl |
| 3.4 Molecular weight | 442.94 g/mol |
| 3.5 CAS number | 106368-24-4 |

4. FIRST AID MEASURES

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| 4.1 First aid instructions | Refer to components SDS. |
| <ul style="list-style-type: none">• General advice | Move out of exposure area. Consult a physician. |
| <ul style="list-style-type: none">• Eyes | Check for and remove contact lenses immediately. Flush thoroughly with water for at least 15 minutes. Call a physician. |



- Skin
Immediately flush skin with copious amounts of water. Remove contaminated clothing and shoes and wash before use. Contact a physician
 - Ingestion
If swallowed, wash mouth out with water provided the victim is conscious. Do not induce vomiting. Loosen tight clothing. Contact a physician.
 - Inhalation
If inhaled, remove victim to fresh air. If not breathing, give artificial respiration. If breathing difficult, call a physician.
 - Puncture wounds
Wash thoroughly with soap and water. Allow wound to bleed freely. Contact a physician
- 4.2 Most important symptoms/effects, acute and immediate Described in section 2.
- 4.3 Indications of immediate medical attention and special treatment needed No data available.

5. FIRE FIGHTING MEASURES

- 5.1 Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
- 5.2 Specific hazards arising from the chemical Carbon oxides, nitrogen oxides, hydrogen chloride gas
- 5.3 Special protective equipment and precautions for firefighters Wear self-contained breathing apparatus and full turnout gear for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment (see section 8). Avoid direct contact with skin or eyes and prevent inhalation of dust. Ensure adequate ventilation. Avoid dust formation.
- 6.2 Environmental precautions No special environmental precautions necessary.
- 6.3 Methods and materials for containment and clean up Sweep up, place in a bag, and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

- 7.1. Precautions for safe handling
- Avoid inhalation, contact with eyes, skin, and clothing.
 - Avoid prolonged or repeated exposure
 - Provide appropriate exhaust ventilation at places where dust is formed.
 - For other precautions see section 2.5.



7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed. Store at 4°C, protected from light.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Refer to components SDS.

No known occupational exposure limits.

8.2 Appropriate engineering controls

Safety shower and eye wash. Mechanical exhaust required.

8.3 Protection measures and personal protective equipment

Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling.

- Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) particle respirator.

- Eye protection

Chemical safety goggles.

- Skin protection

Protective gloves and lab coat.

9. PHYSICAL/CHEMICAL PROPERTIES

9.1 Appearance

Yellow powder

9.2 Odor

No data available.

9.3 Odor threshold

No data available

9.4 pH

No data available.

9.5 Melting point / freezing point

No data available.

9.6 Initial boiling point and boiling range

No data available.

9.7 Flash point

No data available.

9.8 Evaporation rate

No data available.

9.9 Flammability (solid, gas)

No data available.

9.10 Upper/lower flammability or explosive limits

No data available.

9.11 Vapor pressure

No data available.

9.12 Vapor density

No data available.

9.13 Relative density

No data available.

9.14 Solubility(ies)

10 mM in dimethylsulfoxide

9.15 Partition coefficient: n-octanol/water

No data available.

9.16 Auto-ignition temperature

No data available.

9.17 Decomposition temperature

No data available.

9.18 Viscosity

No data available.

9.19 Explosive properties

No data available.

9.20 Oxidizing properties

No data available.



10. STABILITY/REACTIVITY

10.1 Reactivity	No data available.
10.2 Chemical stability	This product is stable.
10.3 Possible of hazardous reactions	No data available.
10.4 Conditions to avoid	No data available.
10.5 Incompatible materials	Strong oxidizing agents.
10.6 Hazardous decomposition products	No data available.

11. TOXICOLOGICAL INFORMATION

11.1 Toxicological effects	No data available.
• Acute toxicity	No data available.
• Skin corrosion / irritation	No data available.
• Serious eye damage / eye irritation	No data available.
• Respiratory or skin sensitization	No data available.
• Germ cell mutagenicity	No data available.
• Carcinogenicity	<ul style="list-style-type: none">• IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.• ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.• NTP: No components of the product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen.• OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
• Reproductive toxicity	No data available.
• Specific target organ toxicity – single exposure	No data available.
• Specific target organ toxicity – repeated exposure	No data available.
• Aspiration Hazard	No data available.
11.2 Symptoms related to the physical, chemical and toxicological characteristics	No data available
11.3 Effects of short term exposure.	No data available.
11.4 Effects of long term exposure	No data available.
11.5 Numerical measures of toxicity	No data available.
11.6 Other information	None



12. ECOLOGICAL INFORMATION

12.1 Toxicity	No data available.
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available.
12.4 Mobility in soil	No data available.
12.5 Results of PBT and vPvB assessment	No data available.
12.6 Other adverse effects	No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal method	Waste must be disposed of in accordance with federal, state, and local environmental control regulations.
13.2 Personal safety	Refer to section 8.

14. TRANSPORT INFORMATION

This product is considered non-hazardous for transport.

15. REGULATORY INFORMATION

U.S. Federal Regulations	
<ul style="list-style-type: none"> • SARA 313 components 	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.
<ul style="list-style-type: none"> • SARA 302 components 	Does not contain any components subject to reporting.
<ul style="list-style-type: none"> • SARA 311/312 Hazards 	Not hazardous.
<ul style="list-style-type: none"> • Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see CFR 61) 	Does not contain any components subject to reporting.
U.S. State Regulations	
<ul style="list-style-type: none"> • California Proposition 65 	Does not contain any components subject to reporting.
<ul style="list-style-type: none"> • Massachusetts Right to Know Components 	Does not contain any components subject to reporting.
<ul style="list-style-type: none"> • Pennsylvania Right to Know Components 	Does not contain any components subject to reporting.
<ul style="list-style-type: none"> • New Jersey Right to Know Components 	Does not contain any components subject to reporting.
WHMIS Hazard Class	Not controlled under WHMIS (Canada).
Regulation (EC) No 1272/.2008 (EU-GHS/CLP)	Not hazardous
Directive 67/548/EC & Directive 1999/45/EC	Not hazardous

16. OTHER INFORMATION

Notice	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety
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precautions. It does not represent any guarantee of the properties of the product. REPROCELL, Inc. shall not be held liable for any damage resulting from handling or from contact with the product. See REPROCELL, Inc. website for terms and conditions of sale.

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3.0

Prepared By

Quality Control

END OF SAFETY DATA SHEET

