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化学品安全技术说明书

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1. Chemical and Company Identification

Common Name or Trade Name: Brensocatib

CAS: 1802148-05-5

Molecular Formula: C₂₃H₂₄N₄O₄

Molecular Weight: 420.46 g/mol

Purity: ≥98%

Product Code: S87697

Brand: Yuanye

Company: Shanghai Yuanye Biotechnology Co., Ltd.

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2. Hazard Overview Classification:

Dipeptidyl Peptidase 1 (DPP1) Inhibitor, Biochemical Reagent.

Hazard: Potential biological activity. Avoid contact with skin, eyes, or inhalation.

Perform operations in a well-ventilated environment.

3. First aid measures

Skin contact: Immediately flush with plenty of water for at least 15 minutes, remove contaminated clothing, and seek medical attention.

Eye contact: Rinse eyes for more than 15 minutes and seek emergency medical treatment.

Inhalation: Move to a place with fresh air, keep breathing unobstructed, and administer oxygen if necessary.

Ingestion: Not applicable (for non-oral use). If swallowed, induce vomiting and



seek medical attention.

4. Firefighting measures

Fire extinguishing method: Use dry powder, carbon dioxide or foam extinguishers.

Special hazards: In powder form, avoid generating dust explosions.

5. Emergency response to leakage

Minor leakage: Use inert materials (such as sand) to adsorb and avoid direct contact.

Massive leakage: Evacuate the area, control diffusion with adsorbent materials, and treat as hazardous waste.

6. Operation and Storage

Operation requirements: Wear protective gloves, goggles, and lab coats; Operate inside the fume hood.

Storage conditions: Dry storage at -20 °C, with a shelf life of 12 months; Avoid exposure to light and moisture.

7. Exposure control and personal protection

Engineering control: ventilation system, enclosed operating equipment.

Personal protection: lab coat, gloves, goggles, mask.

8. Physical and chemical properties

Appearance: White or off white powder.

Solubility: Easily soluble in DMSO (≥ 90 mg/mL), slightly soluble in water.

Stability: The powder form is stable, and the solution needs to be prepared and used immediately.

9. Toxicological information

Acute toxicity: The pIC₅₀ values of mice, rats, dogs, and rabbits were 7.6, 7.7, 7.8, and 7.8, respectively,

Indicating potential biological activity.



Chronic toxicity: Long term exposure may affect the respiratory system, and repeated exposure should be avoided.

10. Ecological information

Environmental hazard: There is no significant ecological risk, but it needs to be handled according to the specifications of biochemical reagents.

11. Disposal of waste

Disposal method: Treat as hazardous waste, incinerate or chemically neutralize before landfilling.

12. Transportation information

Transportation method: Ice pack transportation, avoiding high temperature and vibration.

13. Regulatory Information

Compliance: Complies with laboratory chemical management regulations and requires registration for use.

14. Other information

Usage: Used for research on non cystic fibrosis bronchiectasis (NCFBE).

Caution: For scientific research use only, prohibited for clinical use on humans or animals.