

Material Safety Data Sheet



SECTION 1: Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

Product code: PT51

Product name: InVivo ProteanFect Coacervate-Based In Vivo Nucleic Acid Delivery Kit

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: For research use only.

Uses advised against: No information available.

Company/undertaking identification

Nanoportal Biotech Co., Ltd.

Room 202, Building 1, No.1 Yunmeng Road, Zhuantang Street, Xihu District, Hangzhou, Zhejiang, China

Tel: +86 (0)571-56338010

SECTION 2: Hazards identification

GHS Classification

Health hazards: Not Hazardous

Physical hazards: Not Hazardous

Environmental hazards: Not Hazardous

Label elements

Signal Word: None

Hazard pictograms: None

Hazard pictograms names: None

Hazard Statements: Not Applicable

Precautionary Statements

Prevention: Not Applicable

Response: Not Applicable

Storage: Not Applicable

Disposal: Not Applicable

Other hazards: Not Applicable

SECTION 3: Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

SECTION 4: First aid measures

Description of first aid measures

Skin contact: Rinse skin with water. Immediate medical attention is not required.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: Not expected to present a significant ingestion hazard under anticipated conditions

of normal use. If you feel unwell, seek medical advice.

Inhalation: Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

Notes to Physician: Treat symptomatically.

Most important symptoms and effects, both acute and delayed

Not Applicable

Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media: Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

Unsuitable extinguishing media: No information available.

Special hazards arising from the substance or mixture

Not known

Advice for firefighters

Standard procedure for chemical fires.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment

See SECTION 8 for more information

Environmental precautions

No special environmental precautions required.

Methods and material for containment and cleaning up

Soak up with inert absorbent material.

Reference to other sections

See SECTION 8 for more information.

SECTION 7: Handling and storage

Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

Specific end use(s)

For research use only.

SECTION 8: Exposure controls/personal protection

Control parameters

Contains no substances with occupational exposure limit values.

Engineering Measures

Ensure adequate ventilation, especially in confined areas

Exposure controls

Personal Protective Equipment:

Respiratory protection: In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

Hand protection: Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

Eye protection: Tight sealing safety goggles

Skin and Body Protection: Wear suitable protective clothing

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

No special environmental precautions required.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state: liquid

Colour: No data

Odour: No data

Molecular Weight: No data

pH: 6-8

Melting point/range: No data

Boiling point/range: No data

Flash point: No data

Autoignition Temperature: No data

Decomposition temperature: No data

Evaporation rate: No data

Viscosity: No data

Solubility: No data

Explosive properties: No data

Oxidising properties: No data

Vapour Pressure: No data

Specific gravity: No data

Relative density: No data

Vapour density: No data

Particle characteristics: No data

SECTION 10: Stability and reactivity

Reactivity: None known.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Hazardous reaction has not been reported.

Conditions to avoid: No information available.

Incompatible materials: No dangerous reaction known under conditions of normal use.

Hazardous decomposition products: No data available.

SECTION 11: Toxicological information

Information on toxicological effects

There is no evidence available indicating acute toxicity.

Principal Routes of Exposure

Acute toxicity: Data are conclusive but insufficient for classification.

Skin corrosion/irritation: Data are conclusive but insufficient for classification.

Serious eye damage/irritation: Data are conclusive but insufficient for classification.

Respiratory or skin sensitisation: Data are conclusive but insufficient for classification.

Specific target organ toxicity (STOT) - single exposure: Data are conclusive but insufficient for classification.

Specific target organ toxicity (STOT) - repeated exposure: Data are conclusive but insufficient for classification.

Carcinogenicity: Data are conclusive but insufficient for classification.

Germ cell mutagenicity: Data are conclusive but insufficient for classification.

Reproductive toxicity: Data are conclusive but insufficient for classification.

Aspiration hazard: Data are conclusive but insufficient for classification.

SECTION 12: Ecological information

Toxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Mobility in soil: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects

No information available.

SECTION 13: Disposal considerations

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

SECTION 14: Transport information

IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number or ID number: Not Applicable

UN proper shipping name: Not Applicable

Transport hazard class(es): Not Applicable

Packing group: Not Applicable

Environmental hazards: Not Hazardous

Special precautions for user: Not Applicable

Maritime transport in bulk according to IMO instruments: Not Applicable.

SECTION 15: Regulatory information

International Inventories
No information available.

China
No information available.

UN (United Nations) - Chemical Weapons Convention (CWC)
Not Applicable

SECTION 16: Other information

Reason for revision: Initial release
Revision number: 1
Revision date: September 30, 2026

For research use only. Not for use in diagnostic procedures.

References

ECHA: <http://echa.europa.eu/>
TOXNET: <http://toxnet.nlm.nih.gov/>
eChemPortal: <http://www.echemportal.org/>
LOLI database: <https://www.chemadvisor.com/loli-database>

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution.

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End of Safety Data Sheet