# Safety Data Sheet: FOXO4-DRI

Laboratory research reagent. Not for human or veterinary use.

This substance is supplied for in-vitro laboratory research by qualified researchers only. It is not a drug, food, dietary supplement or cosmetic and has not been evaluated by the US Food and Drug Administration. Purchasers must be 21 years of age or older.

## Section 1: Identification

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| **Product identifier** | FOXO4-DRI |
| **CAS number** | 2460055-10-9 |
| **Product form** | Lyophilised peptide, supplied by Licensed Peptides in sealed research packaging; the format of each product (vial, blend component, encapsulated research formulation or atomized solution) is stated on its product page. |
| **Recommended use** | Laboratory research reagent for in-vitro use by qualified researchers |
| **Restrictions on use** | Not for human or veterinary use. Not a drug, food, cosmetic or household product. |
| **Supplier** | Licensed Peptides, Inc., 1489 W Palmetto Park Rd, Boca Raton, FL 33486, USA |
| **Supplier contact** | service@licensedpeptides.com, +1 (855) 322-2214 (Mon to Fri, 8:30 AM to 6:30 PM ET) |
| **Emergency telephone** | +1 (855) 322-2214 (Mon to Fri, 8:30 AM to 6:30 PM ET). For a medical emergency contact local emergency services or a poison control centre. |

## Section 2: Hazard identification

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| **GHS classification** | Not classified under GHS (Rev. 9) on the basis of the data available for this substance. |
| **Signal word** | None |
| **Hazard statements** | None assigned |
| **Precautionary statements** | None assigned. Handle as a laboratory chemical of unknown toxicity: avoid dust formation, avoid contact with eyes, skin and clothing, do not swallow. |
| **Other hazards** | Fine lyophilised powder may form dust. No data available on other hazards. |

## Section 3: Composition / information on ingredients

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| **Substance / mixture** | Substance (synthetic peptide), may contain counter-ion and residual water from lyophilisation |
| **Chemical name** | H-D-Leu-D-Thr-D-Leu-D-Arg-D-Lys-D-Glu-D-Pro-D-Ala-D-Ser-D-Glu-D-Ile-D-Ala-D-Gln-D-Ser-D-Ile-D-Leu-D-Glu-D-Ala-D-Tyr-D-Ser-D-Gln-D-Asn-Gly-D-Trp-D-Ala-D-Asn-D-Arg-D-Arg-D-Ser-Gly-Gly-D-Lys-D-Arg-D-Pro-D-Pro-D-Pro-D-Arg-D-Arg-D-Arg-D-Gln-D-Arg-D-Arg-D-Lys-D-Lys-D-Arg-Gly-OH |
| **Sequence (one-letter)** | ltlrkepaseiaqsileaysqnGwanrrsGGkrpppprrrqrrkkrG |
| **Sequence (three-letter)** | H-D-Leu-D-Thr-D-Leu-D-Arg-D-Lys-D-Glu-D-Pro-D-Ala-D-Ser-D-Glu-D-Ile-D-Ala-D-Gln-D-Ser-D-Ile-D-Leu-D-Glu-D-Ala-D-Tyr-D-Ser-D-Gln-D-Asn-Gly-D-Trp-D-Ala-D-Asn-D-Arg-D-Arg-D-Ser-Gly-Gly-D-Lys-D-Arg-D-Pro-D-Pro-D-Pro-D-Arg-D-Arg-D-Arg-D-Gln-D-Arg-D-Arg-D-Lys-D-Lys-D-Arg-Gly-OH |
| **CAS number** | 2460055-10-9 |
| **Molecular formula** | C228H388N86O64 |
| **Concentration** | Content as stated on the lot Certificate of Analysis (see /lab-reports/). |
| **Impurities contributing to classification** | None known |

## Section 4: First-aid measures

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| **General advice** | Show this safety data sheet to the attending physician. Remove contaminated clothing. |
| **If inhaled** | Move the person to fresh air. If breathing is difficult, obtain medical attention. |
| **In case of skin contact** | Wash with plenty of soap and water. Obtain medical attention if irritation develops or persists. |
| **In case of eye contact** | Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists. |
| **If swallowed** | Rinse mouth with water. Do not induce vomiting. Obtain medical attention. |
| **Most important effects, acute and delayed** | No data available. |
| **Indication of immediate medical attention** | No data available. Care at the discretion of the attending physician. |

## Section 5: Fire-fighting measures

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| **Suitable extinguishing media** | Water spray, dry chemical, carbon dioxide or alcohol-resistant foam, chosen for the surrounding fire. |
| **Unsuitable extinguishing media** | None known. |
| **Specific hazards** | Organic powder; combustion may release carbon oxides and nitrogen oxides. |
| **Advice for fire-fighters** | Wear self-contained breathing apparatus and full fire-fighting gear. |

## Section 6: Accidental release measures

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| **Personal precautions** | Avoid dust formation. Wear gloves, eye protection and a laboratory coat. Ensure adequate ventilation. |
| **Environmental precautions** | Do not let the substance enter drains. Quantities supplied are milligram scale. |
| **Containment and clean-up** | Sweep up or wipe with a damp cloth without creating dust, place in a closed container for disposal, then clean the area with water. |

## Section 7: Handling and storage

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| **Precautions for safe handling** | Handle in a laboratory setting by trained personnel. Avoid dust formation and contact with skin and eyes. Wash hands after handling. Keep the vial closed when not in use. |
| **Conditions for safe storage** | Store lyophilised at -20 °C in the original sealed vial, desiccated and protected from light. Keep away from strong oxidising agents. Short periods at ambient temperature during shipping are tolerated by the lyophilised powder. |
| **Specific end use** | Laboratory research reagent only. |

## Section 8: Exposure controls / personal protection

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| **Occupational exposure limits** | None established for this substance. |
| **Engineering controls** | Handle the powder in a fume hood or ventilated enclosure. Eyewash station and safety shower should be available. |
| **Eye / face protection** | Safety glasses with side shields or chemical goggles (EN 166 or ANSI Z87.1). |
| **Skin protection** | Nitrile gloves inspected before use; laboratory coat. |
| **Respiratory protection** | Not normally required when handled in a fume hood. For dust-forming operations outside a hood use a particulate respirator (N95 or P2 type). |
| **Hygiene measures** | Do not eat, drink or smoke in the laboratory. Wash hands after handling. |

## Section 9: Physical and chemical properties

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| **Appearance** | White to off-white lyophilised powder |
| **Odour** | Odourless |

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| **Molecular formula** | C228H388N86O64 |
| **Molecular weight (average)** | 5358.1 g/mol |
| **Monoisotopic mass** | 5354.975 Da |
| **Solubility** | Soluble in water (supplier specification). Quantitative solubility: no data available. |
| **pH, melting point, boiling point, flash point, vapour pressure, density, partition coefficient, auto-ignition temperature, decomposition temperature, viscosity** | No data available |
| **Flammability** | No data available (organic powder, not expected to be readily flammable) |

## Section 10: Stability and reactivity

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| **Reactivity** | No data available. |
| **Chemical stability** | Stable under the recommended storage conditions (lyophilised, -20 °C, desiccated, protected from light). |
| **Possibility of hazardous reactions** | None known. |
| **Conditions to avoid** | Moisture, prolonged exposure to light and elevated temperature; repeated freeze-thaw of solutions. |
| **Incompatible materials** | Strong oxidising agents, strong acids and bases. |
| **Hazardous decomposition products** | None known under normal storage. Combustion: carbon oxides and nitrogen oxides. |

## Section 11: Toxicological information

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| **Acute toxicity** | No data available for this substance (all exposure routes). |
| **Skin corrosion / irritation** | No data available. |
| **Serious eye damage / irritation** | No data available. |
| **Respiratory or skin sensitisation** | No data available. |
| **Germ cell mutagenicity** | No data available. |
| **Carcinogenicity** | No data available. Not listed by IARC, NTP or OSHA. |
| **Reproductive toxicity** | No data available. |
| **Specific target organ toxicity (single and repeated exposure)** | No data available. |
| **Aspiration hazard** | No data available. |
| **Additional information** | This safety data sheet does not describe biological activity. The substance has not been evaluated for any use other than in-vitro laboratory research. |

## Section 12: Ecological information

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| **Ecotoxicity** | No data available. |
| **Persistence and degradability** | No data available. As a peptide it is expected to be hydrolysed by environmental proteases. |
| **Bioaccumulative potential** | No data available. |
| **Mobility in soil** | No data available. |
| **Other adverse effects** | No data available. |

## Section 13: Disposal considerations

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| **Waste from residues** | Dispose of as laboratory chemical waste through a licensed waste disposal contractor in accordance with local, state and federal regulations. Do not discharge to drains. |
| **Contaminated packaging** | Dispose of as unused product. Rinsed glass vials may be recycled where local rules allow. |

## Section 14: Transport information

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| **UN number** | Not assigned |
| **UN proper shipping name** | Not regulated as a dangerous good |
| **Transport hazard class** | Not applicable (DOT, IATA, IMDG) |
| **Packing group** | Not applicable |
| **Environmental hazards** | Not classified as a marine pollutant |
| **Special precautions** | Ship cold-packed; the lyophilised powder tolerates short periods at ambient temperature. |

## Section 15: Regulatory information

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| **United States (FDA)** | This substance is not approved by the US Food and Drug Administration as a drug, food, dietary supplement or cosmetic. It is supplied for in-vitro laboratory research only and is not for human or veterinary use. |
| **OSHA Hazard Communication Standard (29 CFR 1910.1200)** | Not classified as hazardous on the basis of available data. |
| **TSCA (US)** | Not evaluated. Supplied in research quantities only. |
| **SARA 302 / 313, California Proposition 65** | Not listed. |
| **Other** | Purchaser must be 21 years of age or older and a qualified researcher. The product may not be used in or on humans or animals. |

## Section 16: Other information

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| **Revision date** | 2026-11-04 |
| **Version** | 1.0 |
| **Prepared by** | Licensed Peptides, Inc. (regulatory and quality documentation) |
| **Data sources** | PubChem CID 167312269 (formula, average and monoisotopic mass, InChIKey WVZCDZFJLXBWHG-XXZPGMBKSA-N); lot Certificate of Analysis for purity and content; GHS Revision 9 for section structure. |
| **Disclaimer** | The information in this safety data sheet is believed to be accurate as of the revision date and is provided for guidance on safe handling, storage and disposal in a laboratory setting. It is not a specification and does not constitute a warranty. The recipient is responsible for determining the suitability of the substance for the intended research application and for compliance with all applicable regulations. |