

SAFETY DATA SHEET

According to GHS / Regulation (EC) No 1272/2008

Decode Peptides
decodepeptides.com

SECTION 1: IDENTIFICATION

Product Name:	MOTS-C 10mg
CAS Number:	1627580-64-6
Molecular Formula:	$C_{20}H_{34}N_2O_6$
Molecular Weight:	2174.7 g/mol
Intended Use:	In vitro research only. Not for human or veterinary use.
Supplier:	Decode Peptides GesbR decodepeptides.com office@decodepeptides.at

SECTION 2: HAZARD IDENTIFICATION

GHS Classification:	Not classified as hazardous. Research compound "not for human use."
Signal Word:	None (not classified as hazardous)
Hazard Statements:	Not applicable under current classification.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance:	MOTS-C 10mg
CAS:	1627580-64-6
Purity:	≥99% (HPLC)
Appearance:	White lyophilized powder

SECTION 4: FIRST AID MEASURES

First Aid:	Skin/Eye: Rinse with water. Ingestion: Seek medical advice.
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SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media:	Use media appropriate to surrounding fire (CO ₂ , dry powder, water fog).
Special Hazards:	Non-flammable. No special fire hazards known.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear gloves and eye protection. Avoid inhalation of dust.
Clean-Up Methods:	Collect spilled material into a sealed container. Dispose per Section 13.

SECTION 7: HANDLING AND STORAGE

Handling:	Standard PPE. Minimize dust exposure.
Storage:	-20 °C (long-term); +4 °C (short-term)
Solubility:	Soluble in sterile water (≥1 mg/mL)

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

Use in a well-ventilated laboratory. Fume hood recommended for reconstitution.

Hand Protection:

Nitrile or latex gloves.

Eye Protection:

Safety glasses or goggles.

Respiratory:

Not required under normal use. Use dust mask if powder is aerosolized.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid (lyophilized powder)
Colour:	White
Odour:	Odourless
Melting Point:	Not determined
Flash Point:	Not applicable
Solubility:	Soluble in sterile water (≈1 mg/mL)

SECTION 10: STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to Avoid:	Heat, moisture, repeated freeze-thaw cycles, direct sunlight.
Hazardous Products:	None known.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:	Not fully established. Handle as potentially biologically active.
Skin/Eye:	May cause mild irritation on prolonged contact.
Note:	For research use only. No clinical toxicity data available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	No data available. Assumed low environmental risk at research quantities.
Biodegradability:	Expected to be biodegradable (peptide bonds).

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:	Dispose as research chemical waste per local regulations.
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SECTION 14: TRANSPORT INFORMATION

Transport Classification:	Ship refrigerated. Not classified as dangerous goods.
Packing Group:	Not applicable.

SECTION 15: REGULATORY INFORMATION

EU Regulation:	This substance is not listed as a hazardous substance under Regulation (EC) No 1272/2008.
Research Use:	This product is supplied for research purposes only in accordance with applicable law.

SECTION 16: OTHER INFORMATION

Prepared By:	Decode Peptides Quality Department
Date of Issue:	2026-06-04
Emergency Line:	+49 (0) 30 30686 790 (BfR, Germany)

Disclaimer:

This SDS is provided for research and safety purposes. The information is believed to be accurate but does not constitute a warranty. The product is for in vitro research only and is not intended for therapeutic, diagnostic, or human use.

