

MOTS-C

Lyophilized research peptide | Available sizes: 10 mg, 15 mg, 20 mg, 40 mg | Document ID: FR-TDS-MOTSC-001

01 PRODUCT IDENTIFICATION

PRODUCT NAME	MOTS-C
PRODUCT CLASS	Mitochondria-derived synthetic peptide
CATEGORY	Metabolic
AVAILABLE SIZES	10 mg, 15 mg, 20 mg, 40 mg
REFERENCE IDENTITY / SEQUENCE	MRWQEMGYIFYPRKLR
CAS REGISTRY NO.	1627580-64-6
PUBCHEM CID	146675088
MOLECULAR FORMULA	C101H152N28O22S2
MOLECULAR WEIGHT	2174.6 g/mol
PHYSICAL FORM	Lyophilized research peptide
INTENDED USE	Laboratory and in-vitro research only. Not for human or veterinary diagnostic, therapeutic, prophylactic or dietary use.

02 ANALYTICAL AND QUALITY INFORMATION

PURITY	Lot-specific. Use the corresponding Fraction Research Certificate of Analysis; do not infer purity from this TDS.
PRIMARY IDENTITY	Identity should be lot-specific and supported by qualified supplier/manufacturer records and appropriate analytical confirmation.
HPLC	Lot-specific HPLC-UV result; see the applicable COA.
TRACEABILITY	Associate each vial lot with its corresponding analytical record and COA.

03 STORAGE AND HANDLING

- Store sealed and protected from moisture and unnecessary light exposure according to the qualified supplier/manufacturer specification.
- For lyophilized material, minimize repeated temperature cycling and prolonged exposure to ambient moisture.
- Do not infer shelf life, reconstitution conditions or solution stability from this TDS; use lot-specific validated data where applicable.
- Handle using standard laboratory chemical hygiene practices and appropriate personal protective equipment.

04 REFERENCE TECHNICAL DATA

CHEMICAL FORM	The exact supplied salt, counterion, hydration state, excipients and/or formulation control. Reconcile to supplier documentation before production publication.
SOLUBILITY / SOLUTION BEHAVIOR	Not standardized in this TDS. Validate conditions for the actual lot and intended laboratory method.
LOT-SPECIFIC PRECEDENCE	The lot-specific COA, supplier specification and SDS supersede generic reference information in this document.

05 COMPLIANCE AND LIMITATIONS

- This document is a technical reference for a research material and is not a drug label, prescribing document, dosing guide or clinical-use instruction.
- Do not use this TDS as a substitute for the lot-specific COA, qualified supplier specification or Safety Data Sheet.
- Exact chemical form, counterion, excipients and formulation details must be reconciled to the actual supplied material before public/production publication.
- Regulatory status and lawful marketing depend on exact product identity, intended use, claims and jurisdiction; obtain appropriate compliance review before publication.

06 SOURCE BASIS

PubChem CID 146675088 (MOTS-c), including sequence, formula and molecular weight. Verify actual salt/counterion supplied. Reference data accessed August 18, 2026. Production values must be reconciled to the actual supplier/manufacturer records and lot-specific Fraction Research documentation.

RESEARCH USE ONLY. This material is intended exclusively for laboratory and in-vitro research by qualified personnel. Not for human or veterinary use.

DOCUMENT CONTROL Revision 001 | Lot-specific analytical documentation controls where values differ.