

Safety and Use Symbols	Handling Requirement
 GHS07	 Qualified laboratory handling only. Use appropriate PPE.

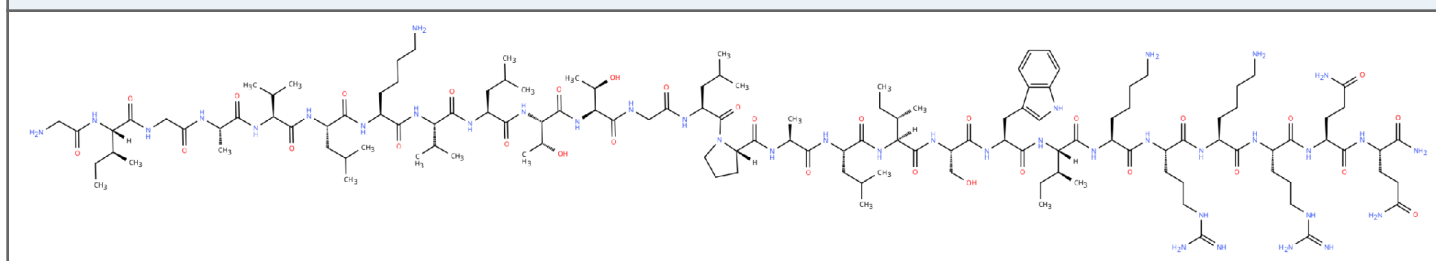
Melittin RUO - Product Specification Sheet

For Research Use Only. Not for human consumption, clinical use, diagnostic use, therapeutic use, compounding, veterinary use, food use, or household use.

Product Identity

Field	Value
Product name	Melittin (Research Use Only), Cat. No. FM0M01
Batch / lot number	MT2601
CAS number	37231-28-0
Molecular formula	C131H229N39O31
Molecular weight	2,846.46 g/mol
Peptide sequence	H-Gly-Ile-Gly-Ala-Val-Leu-Lys-Val-Leu-Thr-Thr-Gly-Leu-Pro-Ala-Leu-Ile-Ser-Trp-Ile-Lys-Arg-Lys-Arg-Gln-Gln-NH ₂
Manufacturing date	2026-03-10
Expiry / retest date	2027-03-09
Package size	10 mg
Intended use	Research Use Only (RUO)

Molecular Structure



Release Specifications and Lot Results

Field	Value
Appearance	Specification/result: White powder
Mass spectrometry	Specification: 2844.8 ± 1.0 (monoisotopic mass); Result: 2844.8
Peptide sequencing	Sequence consistent with theoretical structure; Result: Confirmed
Purity	Specification: Not less than 99.0%; Result: 99.5%
Solubility	Freely soluble in water and 0.1% acetic acid
Storage conditions	Store in a tightly closed container at -20°C or below. Protect from light. Can be shipped at ambient temperature.

Additional test	Result
Amino acid analysis	Confirmed within specification; see attached COA for full amino acid table.
Trp	Present

Product Description

High-purity synthetic melittin peptide for qualified laboratory research workflows. Synthetic-origin positioning differentiates from bee venom-derived material.

Handling and Restrictions

- Membrane-active cytolytic peptide; handle with appropriate PPE.
- Avoid inhalation, ingestion, skin contact, and eye contact.