Product Name: MEN 10627
Catalog No.: 1633
Batch No.: 1
CAS Number: 157351-81-0

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{38}\text{H}_{48}\text{N}_8\text{O}_7\text{S} \)
Batch Molecular Weight: 760.9
Physical Appearance: White lyophilised solid
Net Peptide Content: 66%
Solubility: Soluble to 0.10 mg/ml in DMSO
Storage: Desiccate at -20°C
Peptide Sequence: cyclo(Dpr-Leu-Met-Asp-Trp-Phe) (4β-1β lactam)

2. ANALYTICAL DATA

HPLC: Shows >95% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com
info@bio-techne.com
Techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
Tel:+1 612 379 2956

www.tocris.com/distributors
**Product Information**

**Product Name:** MEN 10627  
**Catalog No.:** 1633  
**Batch No.:** 1

**CAS Number:** 157351-81-0

**Description:**
Potent and selective competitive tachykinin NK₂ receptor antagonist (pKᵢ = 8.1 - 10.1). Displays 100- and > 1200-fold selectivity over NK₁ and NK₃ receptors respectively. Active in vivo.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₈₆H₁₆₂N₆O₇S  
- **Batch Molecular Weight:** 760.9  
- **Physical Appearance:** White lyophilised solid

**Peptide Sequence:**
cyclo(Dpr-Leu-Met-Asp-Trp-Phe) (4⁸-1⁸ lactam)

**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**
Soluble to 0.10 mg/ml in DMSO  
This product is supplied as a lyophilised solid and may be very hard to visualise. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**Net Peptide Content:** 66% (Remaining weight made up of counterions and residual water).

**Stability and Solubility Advice:**
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath). Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze-thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

**References:**