Product Name: d[Leu$^4$,Lys$^9$]-VP
CAS Number: 42061-33-6

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: $C_{47}H_{67}N_{11}O_{11}S_2$
   Batch Molecular Weight: 1026.2
   Physical Appearance: White lyophilised solid
   Net Peptide Content: 75%
   Counter Ion: TFA
   Solubility: Soluble to 2 mg/ml in water
   Storage: Store at -20°C
   Peptide Sequence: Mpr-Tyr-Phe-Leu-Asn-Cys-Pro-Lys-Gly-NH$_2$

2. ANALYTICAL DATA

   HPLC: Shows 96% purity
   Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

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<th>Actual</th>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: d[Leu⁴,Lys⁸]-VP

CAS Number: 42061-33-6

Description:
Selective vasopressin V₁b receptor agonist (Kᵢ values are 0.16, 64, 100 and 3800 nM for V₁b, oxytocin, V₂ and V₁a receptors respectively). Displays weak antidiuretic, vasopressor and in vitro oxytocic activities.

Physical and Chemical Properties:
Batch Molecular Formula: C₄₇H₆⁹N₁⁷O₁⁷S₂
Batch Molecular Weight: 1026.2
Physical Appearance: White lyophilised solid

Peptide Sequence:
Mpr-Tyr-Phe-Leu-Asn-Cys-Pro-Lys-Gly-NH₂

Storage: Store at -20°C

Solubility & Usage Info:
Soluble to 2 mg/ml in water
This product is supplied as a lyophilized solid and may be very hard to visualize. 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: 75% (Remaining weight made up of counterions and residual water).

Counter Ion: TFA

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: