biotechne						Print D	ate: Mar 13 th 2024	
TOCRIS	Certif	icate of		www.tocris.com				
Product Name: (d(CH ₂) ₅ ¹ ,Tyr(Me) ² CAS Number: 73168-24-8	,Arg ⁸)-Vasopres)-Vasopressin			talog No.: 3	3377	Batch No.: 9	
I. PHYSICAL AND CHEMICAL PR	OPERTIES							
Batch Molecular Formula:	C ₅₂ H ₇₄ N	$C_{52}H_{74}N_{14}O_{12}S_2$						
Batch Molecular Weight:	1151.38	1151.38						
Physical Appearance:	White ly	White lyophilised solid						
Counter Ion:	TFA	TFA						
Solubility:	Soluble	Soluble to 2 mg/ml in water						
Storage:	Store at	Store at -20°C						
Peptide Sequence:	Pmp-T	Pmp-Tyr(Me)-Phe-Gln-Asn-Cys-Pro-Arg-Gly-NH ₂						
2. ANALYTICAL DATA								
HPLC:	Shows	Shows 99.2% purity						
Mass Spectrum:	Consist	Consistent with structure						
3. AMINO ACID ANALYSIS DATA								
	Amino	Amino Acid Theoretical Actual A		Amino A	Acid Theoret	tical Actua	l	
	Ala			Lys				
	Arg	1.00	0.99	Met				
	Asx	1.00	0.98	Phe	1.00	1.04		
	Cys	1.00	Detected	Pro	1.00	0.95		
	Glx	1.00	1.00	Ser				
	Gly	1.00	1.00	Thr				
	His			Trp				
	lle			Tyr	1.00	0.90		
	Leu			Val				

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Product Information

Product Name: (d(CH₂)₅¹,Tyr(Me)²,Arg⁸)-Vasopressin

CAS Number: 73168-24-8

Description:

 $(d(CH_2)_5^1,Tyr(Me)^2,Arg^8)$ -Vasopressin is a selective vasopressin V_{1A} receptor antagonist. Inhibits vasopressin and oxytocininduced increases in intracellular calcium concentrations in vitro (IC₅₀ values are 5 and 30 nM respectively). Exhibits potent and prolonged antivasopressor activity and induces anxiolytic-like effects in the dorsal, but not ventral, hippocampus in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: C₅₂H₇₄N₁₄O₁₂S₂ Batch Molecular Weight: 1151.38 Physical Appearance: White lyophilised solid

Peptide Sequence:

Pmp-Tyr(Me)-Phe-Gln-Asn-Cys-Pro-Arg-Gly-NH2

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 2 mg/ml in water

This product is supplied in lyophilized form. It may appear as a solid, gel or film and 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.

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 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 μ m filter to remove potential bacterial contamination whenever possible.

References:

Engin and Treit (2008) Dissociation of the anxiolytic-like effects of Avpr1a and Avpr1b receptor antagonists in the dorsal and ventral hippocampus. Neuropeptides **42** 411. PMID: 18508119.

Tsuchiya *et al* (2002) Vasopressin inhibits sarcolemmal ATP-sensitive K⁺ channels via V₁ receptors activation in the guinea pig heart. Circ.J. **66** 277. PMID: 11922278.

Spath *et al* (1996) Arginine vasopressin and oxyt. increase intracellular calcium and cAMP in human glomerular epithelial cells in culture. Kidney Blood Press.Res. **19** 81. PMID: 8871886.

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