b	<b>iotech</b> r	ne <sup>®</sup>						Print Date: Jun 21st	2024
Т	OCRIS		Certif	Certificate of Analysis				www.tocris.com	
	roduct Name: AS Number:	<b>(d(CH<sub>2</sub>)₅<sup>1</sup>,Tyr(Me)<sup>2</sup></b> , 73168-24-8	Arg <sup>8</sup> )-Vasopres	sin		Catalo	g No.: 3377	Batch No.	: 11
1.	PHYSICAL A	ND CHEMICAL PRO	PERTIES						
	Batch Molec	ular Formula:	C <sub>52</sub> H <sub>74</sub> N	$I_{14}O_{12}S_2$					
	Batch Molec	1151.38	3						
	Physical App	White ly	ophilised so	olid					
	Counter lon:	TFA							
	Solubility:	Soluble	Soluble to 2 mg/ml in water						
	Storage:		Store at	Store at -20°C					
	Peptide Sequ	Jence:	Pmp-T	yr(Me)-Phe	-GIn-Asn-Cys-I	Pro-Arg-	-Gly-NH <sub>2</sub>		
2.	ANALYTICAI	DATA							
	HPLC:	Shows 9	Shows 98.0% purity						
	Mass Spectr	um:	Consiste	Consistent with structure					
3.	AMINO ACID	ANALYSIS DATA							
			Amino	Amino Acid Theoretical Actual		Amino Acid Theoretical Actual			
			Ala			Lys			
			Arg	1.00	0.99	Met			
			Asx	1.00	0.98	Phe	1.00	1.04	
			Cys	1.00	Not 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(CH<sub>2</sub>)<sub>5</sub><sup>1</sup>,Tyr(Me)<sup>2</sup>,Arg<sup>8</sup>)-Vasopressin

(d(CH<sub>2</sub>)<sub>5</sub><sup>1</sup>,Tyr(Me)<sup>2</sup>,Arg<sup>8</sup>)-Vasopressin is a selective vasopressin

V1A receptor antagonist. Inhibits vasopressin and oxytocin-

induced increases in intracellular calcium concentrations in vitro  $(IC_{50}$  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.

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

CAS Number: 73168-24-8

**Physical and Chemical Properties:** 

Batch Molecular Weight: 1151.38

**Peptide Sequence:** 

Batch Molecular Formula: C<sub>52</sub>H<sub>74</sub>N<sub>14</sub>O<sub>12</sub>S<sub>2</sub>

Physical Appearance: White lyophilised solid

#### 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  $45-60^{\circ}C$  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  $\mu$ 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<sup>+</sup> channels via V<sub>1</sub> 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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**Description:** 

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11