

(d(CH2)51,Tyr(Me)2,Thr4,Orn8,Tyr-NH29)-Vasotocin

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| Cat. No.: | HY-P2014 |
| CAS No.: | 114056-26-7 |
| Molecular Formula: | C ₅₄ H ₇₉ N ₁₁ O ₁₃ S ₂ |
| Molecular Weight: | 1154.4 |
| Sequence Shortening: | XYITNC(Unk)PXY(Me)-NH2 |
| Target: | Oxytocin Receptor |
| Pathway: | GPCR/G Protein |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |

BIOLOGICAL ACTIVITY

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| Description | (d(CH2)51,Tyr(Me)2,Thr4,Orn8,Tyr-NH29)-Vasotocin is an oxytocin antagonist and can be used for the research of sexual behavior ^[1] . | | | | | | | | | | | | | | | | |
| IC₅₀ & Target | Oxytocin ^[1] | | | | | | | | | | | | | | | | |
| In Vivo | <p>(d(CH2)51,Tyr(Me)2,Thr4,Orn8,Tyr-NH29)-Vasotocin (50-1000 ng; Intra-MPOA; 1 μL) inhibits certain aspects of male sexual behavior in rats^[1].</p> <p>(d(CH2)51,Tyr(Me)2,Thr4,Orn8,Tyr-NH29)-Vasotocin (100 ng; i.c.v.; 1 μL) effectively suppresses hypoalgesia following copulatory behavior in male rats^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Adult Long-Evans/Blue-Spruce rats^[1]</td> </tr> <tr> <td>Dosage:</td> <td>50 ng, 200 ng, and 1 μg</td> </tr> <tr> <td>Administration:</td> <td>Intra-MPOA (medial preoptic area) injection, 1 μL</td> </tr> <tr> <td>Result:</td> <td>Significantly increased intromission latency and anogenital investigation at 1 μg dose. Significantly decreased intromission ratio (2) at all doses.</td> </tr> </table> <table border="1"> <tr> <td>Animal Model:</td> <td>Adult male and female Long-Evans rats (8 weeks old, 220–260 g BW)^[2]</td> </tr> <tr> <td>Dosage:</td> <td>100 ng</td> </tr> <tr> <td>Administration:</td> <td>Intracerebroventricular injection, 1 μL</td> </tr> <tr> <td>Result:</td> <td>Was effective in reducing pain threshold heightened by copulatory behavior.</td> </tr> </table> | Animal Model: | Adult Long-Evans/Blue-Spruce rats ^[1] | Dosage: | 50 ng, 200 ng, and 1 μg | Administration: | Intra-MPOA (medial preoptic area) injection, 1 μL | Result: | Significantly increased intromission latency and anogenital investigation at 1 μg dose. Significantly decreased intromission ratio (2) at all doses. | Animal Model: | Adult male and female Long-Evans rats (8 weeks old, 220–260 g BW) ^[2] | Dosage: | 100 ng | Administration: | Intracerebroventricular injection, 1 μL | Result: | Was effective in reducing pain threshold heightened by copulatory behavior. |
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REFERENCES

[1]. Gil M, et al. Oxytocin in the medial preoptic area facilitates male sexual behavior in the rat. *Horm Behav.* 2011 Apr;59(4):435-43.

Caution: Product has not been fully validated for medical applications. For research use only.

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