

## [Asu1,6]-Oxytocin

Cat. No.:	HY-P3866
CAS No.:	14317-68-1
Molecular Formula:	C <sub>45</sub> H <sub>69</sub> N <sub>11</sub> O <sub>12</sub>
Molecular Weight:	956.1
Sequence Shortening:	YIQN-{Asu}-PLG-NH2 (lactam:Tyr1-Asu5 )
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

Description	[Asu1,6]-Oxytocin is an analog of oxytocin. [Asu1,6]-Oxytocin reverses insulin resistance and glucose intolerance prior to reduction of obesity. [Asu1,6]-Oxytocin has the potential for the research of obesity and diabetes <sup>[1]</sup> .	
In Vivo	[Asu1,6]-Oxytocin (4 µg per injection; third-ventricle injection, twice injected for 7 days) improves glucose intolerance and lowers fasting blood insulin levels in mouse <sup>[1]</sup> .	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	C57BL/6 mice <sup>[1]</sup>
	Dosage:	4 µg per injection
	Administration:	Third-ventricle injection, twice injected for 7 days
	Result:	Improved glucose intolerance and lowered fasting blood insulin levels, and both effects were independent of body weight.

### REFERENCES

[1]. Zhang H, et al. Treatment of obesity and diabetes using oxytocin or analogs in patients and mouse models. PLoS One. 2013 May 20;8(5):e61477.

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

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