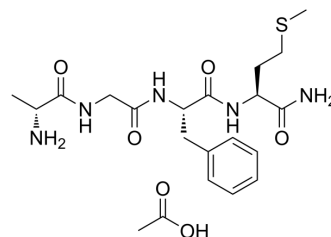


## D-Ala-Gly-Phe-Met-NH<sub>2</sub> monoacetate

<b>Cat. No.:</b>	HY-P3555A
<b>CAS No.:</b>	100929-65-5
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>33</sub> N <sub>5</sub> O <sub>6</sub> S
<b>Molecular Weight:</b>	483.58
<b>Sequence Shortening:</b>	{d-Ala}-GFM-NH <sub>2</sub>
<b>Target:</b>	Opioid Receptor
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	D-Ala-Gly-Phe-Met-NH <sub>2</sub> monoacetate, an opioid peptide, is a potent opiate $\delta$ -receptor agonist <sup>[1]</sup> .								
<b>In Vivo</b>	<p>D-Ala-Gly-Phe-Met-NH<sub>2</sub> monoacetate (7.1 nM and 14.2 nM (0.5 <math>\mu</math>L); microinjection; male Sprague-Dawley rats) increases ethanol intake in preference to food in the nucleus accumbens (NAc)<sup>[1]</sup>.</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>Male Sprague-Dawley rats (200-250 g)<sup>[1]</sup></td> </tr> <tr> <td>Dosage:</td> <td>7.1 nM and 14.2 nM (0.5 <math>\mu</math>L)</td> </tr> <tr> <td>Administration:</td> <td>Microinjection in the nucleus accumbens (NAc)</td> </tr> <tr> <td>Result:</td> <td>Increased ethanol intake in the nucleus accumbens (NAc).</td> </tr> </table>	Animal Model:	Male Sprague-Dawley rats (200-250 g) <sup>[1]</sup>	Dosage:	7.1 nM and 14.2 nM (0.5 $\mu$ L)	Administration:	Microinjection in the nucleus accumbens (NAc)	Result:	Increased ethanol intake in the nucleus accumbens (NAc).
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### REFERENCES

[1]. Barson JR, et, al. Opioids in the nucleus accumbens stimulate ethanol intake. *Physiol Behav.* 2009 Oct 19;98(4):453-9.

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

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