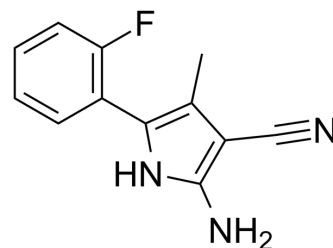


## NS-8

<b>Cat. No.:</b>	HY-147383
<b>CAS No.:</b>	186033-14-7
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>10</sub> FN <sub>3</sub>
<b>Molecular Weight:</b>	215.23
<b>Target:</b>	Potassium Channel
<b>Pathway:</b>	Membrane Transporter/Ion Channel
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

<b>Description</b>	NS-8, a pyrrole derivative, activates the Ca <sup>2+</sup> -sensitive k <sup>+</sup> -channel. NS-8 can suppress the micturition reflex by decreasing afferent pelvic nerve activity. NS-8 can be used in the research of urinary frequency and incontinence <sup>[1]</sup> .								
<b>In Vivo</b>	<p>NS-8 (intravenous injection or intraduodenal administration, 3 and 10 mg/kg) suppresses the rat micturition reflex by inhibiting afferent pelvic nerve activity in rats<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>Rats<sup>[1]</sup></td> </tr> <tr> <td>Dosage:</td> <td>1, 3 and 10 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Intraduodenal administration, intravenous injection</td> </tr> <tr> <td>Result:</td> <td>           Intraduodenal administration: increased the bladder capacity without affecting the MBCP (bladder contraction pressure).            Intravenous injection: inhibited the IVBCs (isovolumetric bladder contractions) in a dose-dependent manner without affecting the amplitude.            Suppressed the increase in the pelvic afferent discharge frequency and inhibited the increase in intravesical pressure.         </td> </tr> </table>	Animal Model:	Rats <sup>[1]</sup>	Dosage:	1, 3 and 10 mg/kg	Administration:	Intraduodenal administration, intravenous injection	Result:	Intraduodenal administration: increased the bladder capacity without affecting the MBCP (bladder contraction pressure). Intravenous injection: inhibited the IVBCs (isovolumetric bladder contractions) in a dose-dependent manner without affecting the amplitude. Suppressed the increase in the pelvic afferent discharge frequency and inhibited the increase in intravesical pressure.
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## REFERENCES

[1]. M Tanaka, et al. A novel pyrrole derivative, NS-8, suppresses the rat micturition reflex by inhibiting afferent pelvic nerve activity. BJU Int. 2003 Dec;92(9):1031-6.

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

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