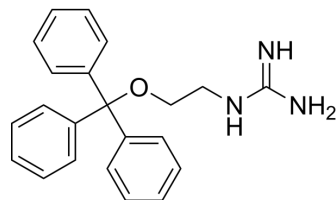


## NY0116

Cat. No.:	HY-124681
CAS No.:	1003000-59-6
Molecular Formula:	C <sub>22</sub> H <sub>23</sub> N <sub>3</sub> O
Molecular Weight:	345.44
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	NY0116 is a neuromedin U receptor 2 (NMUR2) agonist with EC <sub>50</sub> values of 27.76 μM for hNMUR1 and 13.61 μM for hNMUR2. NY0116 decreases cAMP while stimulating calcium signaling in stably expressing NMUR2 HEK293 cells <sup>[1]</sup> .								
<b>In Vitro</b>	NY0116 has potent dose-dependent inhibition of cAMP (EC <sub>50</sub> of 1.69 nM) in HEK293 cells stably expressing hNMUR2. NY0116 also stimulates calcium signaling in cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
<b>In Vivo</b>	NY0116 (3-30 mg/kg; SC; ; for 14 days) decreases bodyweight, visceral adipose tissue, and cholesterol on a high-fat diet <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
	<table border="1"> <tr> <td>Animal Model:</td> <td>Male diet induced obese (DIO) C57BL/6J mice age 18 weeks and 8 age<sup>[1]</sup></td> </tr> <tr> <td>Dosage:</td> <td>3, 10, 30 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Subcutaneous injection; for 14 days</td> </tr> <tr> <td>Result:</td> <td>Significantly decreased bodyweight compared to vehicle, whereas mice were maintained on a high-fat diet.</td> </tr> </table>	Animal Model:	Male diet induced obese (DIO) C57BL/6J mice age 18 weeks and 8 age <sup>[1]</sup>	Dosage:	3, 10, 30 mg/kg	Administration:	Subcutaneous injection; for 14 days	Result:	Significantly decreased bodyweight compared to vehicle, whereas mice were maintained on a high-fat diet.
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### REFERENCES

[1]. Catherine M Sampson, et al. Small-Molecule Neuromedin U Receptor 2 Agonists Suppress Food Intake and Decrease Visceral Fat in Animal Models. *Pharmacol Res Perspect.* 2018 Aug 23;6(5):e00425.

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

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