

## Kisspeptin 13

|                             |   |
|-----------------------------|---|
| <b>Cat. No.:</b>            | HY-P3641  |
| <b>CAS No.:</b>             | 374675-18-0   |
| <b>Molecular Formula:</b>   | C <sub>78</sub> H <sub>107</sub> N <sub>21</sub> O <sub>18</sub>                          |
| <b>Molecular Weight:</b>    | 1626.81   |
| <b>Sequence Shortening:</b> | Leu-Pro-Asn-Tyr-Asn-Trp-Asn-Ser-Phe-Gly-Leu-Arg-Phe-NH <sub>2</sub>                       |
| <b>Target:</b>              | GnRH Receptor   |
| <b>Pathway:</b>             | GPCR/G Protein  |
| <b>Storage:</b>             | Please store the product under the recommended conditions in the Certificate of Analysis. |

### BIOLOGICAL ACTIVITY

|                    |   |   |
|--------------------|---|---|
| <b>Description</b> | Kisspeptin 13 is a GPR54 and GnRH receptor activator, an endogenous active isoform. Kisspeptin 13 enhances memory and can be used in Alzheimer's disease research <sup>[1]</sup> .  |   |
| <b>In Vivo</b>     | Kisspeptin 13 (intracerebroventricular administration; 2 µg/side; once) treatment improves object recognition memory impairment induced by Aβ through activation of GPR54 and GnRH receptor <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |   |
|                    | <b>Animal Model:</b>  | Male Swiss mice with memory impairment induced by A-beta <sup>[1]</sup>   |
|                    | <b>Dosage:</b>  | 2 µg/side   |
|                    | <b>Administration:</b>  | Intracerebroventricular administration; 2 µg/side; once   |
|                    | <b>Result:</b>  | Facilitated memory formation and prolonged memory retention through activation of the GPR54 and GnRH receptors, and suppressed memory-impairing effect of Aβ through activation of the GPR54. |

### REFERENCES

[1]. Jiang JH, et al. Kisspeptin-13 enhances memory and mitigates memory impairment induced by Aβ1-42 in mice novel object and object location recognition tasks. *Neurobiol Learn Mem.* 2015 Sep;123:187-95.

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

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