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| <b>Product Name</b>      | : Kisspeptin 234   | Ac[(D)-A]NWNGFG[(D)-W]RF |
| <b>Cat. No.</b>          | : PC-21174   |                          |
| <b>CAS No.</b>           | : 1848962-29-7   |                          |
| <b>Molecular Formula</b> | : C <sub>65</sub> H <sub>79</sub> F <sub>3</sub> N <sub>18</sub> O <sub>15</sub> |                          |
| <b>Molecular Weight</b>  | : 1409.43  |                          |
| <b>Target</b>            | : Other Targets  |                          |
| <b>Solubility</b>        | : 10 mM in DMSO  |                          |

### Biological Activity

Kisspeptin 234 (Peptide 234, P234) is a potent kisspeptin receptor (**KISS1**, **GPR54**) antagonist with binding IC<sub>50</sub> of 2.7 nM in competition with <sup>125</sup>I-kisspeptin-10, blocks the stimulatory effects of kisspeptin on hypothalamus-pituitary-gonadal (HPG) axis.

Peptide P234 potently inhibits 10 nM kisspeptin-10 stimulation of IP by 93%, with an IC<sub>50</sub> of 7 nM and has no intrinsic IP stimulation.

Peptide 234 (1 nM) antagonizes kisspeptin-10 excitation of GnRH neurons.

Peptide 234 inhibits pulsatile GnRH release in pubertal female rhesus monkeys.

Peptide 234 inhibits kisspeptin-10 stimulated LH in intact male rats and the increase in LH after castration.

### References

Fariba Mahmoudi, et al. *Int J Endocrinol Metab.* 2014 Jan 5;12(1):e12554.

Antonia K Roseweir, et al. *J Neurosci.* 2009 Mar 25;29(12):3920-9.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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