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KISS1-305

Cat. No.:	HY-P2191
CAS No.:	872717-97-0
Molecular Formula:	C ₅₆ H ₇₆ N ₁₆ O ₁₂
Molecular Weight:	1165.3
Sequence:	{d-Try}-{d-Ala(Py)}-Asn-Ser-Phe-{Gly(aza)}-Leu-{Arg(Me)}-Phe-NH ₂
Sequence Shortening:	{d-Try}-{d-Ala(Py)}-NSF-{Gly(aza)}-L-{Arg(Me)}-F-NH ₂
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	KISS1-305, the Metastin/Kisspeptin analog, is a prototype peptide and a chemical probe. KISS1-305 has suboptimal KISS1R agonistic activity, and resists plasma protease degradation ^[1] .								
In Vivo	<p>KISS1-305 (4 nmol/h; s.c.) shows suppression of pituitary-gonadal functions^[1]. KISS1-305 causes substantial elevations of plasma LH and testosterone, followed by abrupt reductions of both hormone levels. KISS1-305 also reduced genital organ weight more profoundly than leuprolide. In mechanistic studies, chronic KISS1-305 administration only transiently induced c-Fos expression in GnRH neurons, suggesting that GnRH-neural response was attenuated over time^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table> <tr> <td>Animal Model:</td> <td>Adult male Sprague Dawley Crl:CD(SD) rats (8-10 wk of age)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>4 nmol/h</td> </tr> <tr> <td>Administration:</td> <td>s.c.</td> </tr> <tr> <td>Result:</td> <td>Both plasma T and LH levels were markedly increased on d 1 after the initiation of dosing and dramatically decreased thereafter to the lower limit of detection (LH: 0.08 ng/ml; T: 0.04 ng/ml) by d 6.</td> </tr> </table>	Animal Model:	Adult male Sprague Dawley Crl:CD(SD) rats (8-10 wk of age) ^[1]	Dosage:	4 nmol/h	Administration:	s.c.	Result:	Both plasma T and LH levels were markedly increased on d 1 after the initiation of dosing and dramatically decreased thereafter to the lower limit of detection (LH: 0.08 ng/ml; T: 0.04 ng/ml) by d 6.
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Dosage:	4 nmol/h								
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REFERENCES

[1]. Matsui H, et al. Chronic administration of the metastin/kisspeptin analog KISS1-305 or the investigational agent TAK-448 suppresses hypothalamic pituitary gonadal function and depletes plasma testosterone in adult male rats. *Endocrinology*. 2012 Nov;153(11):5297-308.

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

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