

Fsh receptor-binding inhibitor fragment(bi-10)

Cat. No.:	HY-P4190
CAS No.:	163973-98-6
Molecular Formula:	C ₄₂ H ₆₇ N ₁₃ O ₁₉
Molecular Weight:	1058.06
Sequence:	Thr-Glu-Asn-Leu-Glu-Pro-Asn-Gly-Glu-Gly-NH ₂
Sequence Shortening:	TENLEPNNGEG-NH ₂
Target:	GnRH Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	FSH receptor-binding inhibitor fragment(bi-10) is a potent FSH antagonist. FSH receptor-binding inhibitor fragment(bi-10) blocks the binding of FSH to FSHR, and alters FSH action at the receptor level. FSH receptor-binding inhibitor fragment(bi-10) results in the suppression of ovulation and causes follicular atresia of mice. FSH receptor-binding inhibitor fragment(bi-10) has the potential for utilizing to restrain the carcinogenesis of ovarian cancer by down-regulating overexpression of FSHR and ERβ in the ovaries ^[1] .								
In Vivo	<p>FSH receptor-binding inhibitor fragment(bi-10) (10, 20, 30, 40 mg/kg; Intramuscularly injection; once a day for five consecutive days) with high dose (30 mg/kg to 40 mg/kg) can suppress ovarian and follicular development, and attenuate expression levels of ERβ and FSHR mRNAs and proteins in the ovaries, additionally inhibit E2 production^[1]. 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>Prepuberty Kunming female mice of 21-days old and body weight of 22.3±1.52g^[1]</td> </tr> <tr> <td>Dosage:</td> <td>10, 20, 30, 40 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Intramuscularly injection; once a day for five consecutive days</td> </tr> <tr> <td>Result:</td> <td> Could attenuate FSH promoting effect on the follicular development, resulting in the poor maturation of ovarian follicles. High dose (40mg/kg) treatment blocked the follicle development of mice. High dose of FRBI (40mg/kg) treatment blocked the follicle development of mice. </td> </tr> </table>	Animal Model:	Prepuberty Kunming female mice of 21-days old and body weight of 22.3±1.52g ^[1]	Dosage:	10, 20, 30, 40 mg/kg	Administration:	Intramuscularly injection; once a day for five consecutive days	Result:	Could attenuate FSH promoting effect on the follicular development, resulting in the poor maturation of ovarian follicles. High dose (40mg/kg) treatment blocked the follicle development of mice. High dose of FRBI (40mg/kg) treatment blocked the follicle development of mice.
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REFERENCES

[1]. Gong Zhuandi, et al. FSH receptor binding inhibitor restrains follicular development and possibly attenuates carcinogenesis of ovarian cancer through down-regulating expression levels of FSHR and ERβ in normal ovarian tissues. Gene. 2018 Aug 20;668:174-181.

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

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