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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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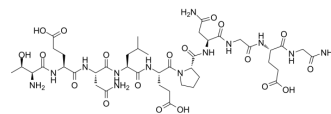
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Fsh receptor-binding inhibitor fragment(bi-10)

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:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (94.51 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		0.9451 mL	4.7256 mL	9.4513 mL
	5 mM		0.1890 mL	0.9451 mL	1.8903 mL
	10 mM		0.0945 mL	0.4726 mL	0.9451 mL

Please refer to the solubility information to select the appropriate solvent.

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 ER β in the ovaries^[1].

In Vivo

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 ER β 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.

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.

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 ER β 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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