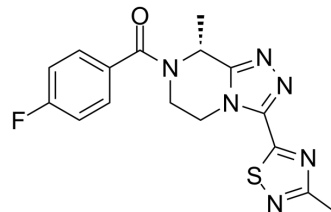


Fezolinetant

Cat. No.:	HY-19632		
CAS No.:	1629229-37-3		
Molecular Formula:	C ₁₆ H ₁₅ FN ₆ OS		
Molecular Weight:	358.39		
Target:	Neurokinin Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 20 mg/mL (55.81 mM; Need ultrasonic)			
		Solvent	Mass	
		Concentration	1 mg	5 mg
	Preparing Stock Solutions		10 mg	
	1 mM	2.7903 mL	13.9513 mL	27.9026 mL
	5 mM	0.5581 mL	2.7903 mL	5.5805 mL
	10 mM	0.2790 mL	1.3951 mL	2.7903 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2 mg/mL (5.58 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2 mg/mL (5.58 mM); Clear solution Add each solvent one by one: 5% DMSO >> 40% PEG300 >> 5% Tween-80 >> 50% saline Solubility: 1 mg/mL (2.79 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 1% DMSO >> 99% saline Solubility: ≥ 0.2 mg/mL (0.56 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	Fezolinetant is an antagonist of the neurokinin 3 receptor (NK3R), used for the treatment of menopausal hot flashes.
IC₅₀ & Target	NK3
In Vivo	Fezolinetant (ESN364, 1 mg/kg, iv bolus) reversibly inhibits the regular, pulsatile secretion of LH in the ovariectomized ewe.

ESN364 represses the pulse pattern of LH in all treated animals. ESN364 (5 mg/kg, p.o.) lowers plasma LH, but not FSH, in the castrated monkey. ESN364 (10, 25, 50 mg/kg, orally) also blocks the LH surge and decreases ovarian hormone levels throughout the menstrual cycle in monkeys^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration ^[1]

On the day of the experiment, the NK3R antagonist ESN364 is formulated in physiological saline with 9% 2-hydroxypropyl- β -cyclodextrin at a concentration of 2 mg/mL. At 240 minutes after the initiation of blood sampling, ESN364 (1 mg/kg, n=5) or vehicle (n=5) is administered by an iv bolus injection at a dose volume of 0.5 mL/kg through the jugular cannulae, and the injected material is flushed into the animal with 5 mL of heparinized saline. Blood sampling resumes at the indicated intervals following this iv administration.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Allergy Clin Immunol. 2019 Oct;144(4):1130-1133.e8.
- Patent. US20210401821A1.

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REFERENCES

[1]. Fraser GL, et al. The NK3 Receptor Antagonist ESN364 Interrupts Pulsatile LH Secretion and Moderates Levels of Ovarian Hormones Throughout the Menstrual Cycle. Endocrinology. 2015 Nov;156(11):4214-25.

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

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