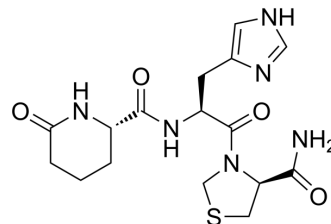


## MK771

Cat. No.:	HY-119174
CAS No.:	66537-55-1
Molecular Formula:	C <sub>16</sub> H <sub>22</sub> N <sub>6</sub> O <sub>4</sub> S
Molecular Weight:	394.45
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	MK771 is a thyrotrophin-releasing hormone analog. MK771 induces blinking and forepaw licking. MK771 has the potential for the research of morphine abstinence syndrome <sup>[1][2]</sup> .	
In Vivo	MK771 (5 mg/kg; i.p.) induces blinking and forepaw licking in mice <sup>[1]</sup> . MK771 (10 ng-10 µg/mouse; i.c.v.) produces a hyperthermic response in mice <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	20-30 g, male MF1 mice <sup>[1]</sup>
	Dosage:	5 mg/kg
	Administration:	i.p.
	Result:	Induced blinking and forepaw licking in both acutely isolated and paired mice.
	Animal Model:	20-30 g, male MF1 mice <sup>[1]</sup>
	Dosage:	0.25-60 mg/kg
	Administration:	i.p.
	Result:	Induced blinking was bell-shaped with an ED <sub>50</sub> value of 1.72 mg/kg.
Animal Model:	25-30 g, Male Swiss-Webster mice <sup>[2]</sup>	
Dosage:	10 ng-10 µg/mouse	
Administration:	i.c.v.	
Result:	Produced a hyperthermic response for 4 h followed by a return to normal temperature.	

### REFERENCES

---

[1]. McCreary AC, et al. The thyrotrophin-releasing hormone analogue MK771 induces tic-like behaviours: the effects of dopamine D1 and D2 receptor antagonists. *Eur J Pharmacol.* 1999 Mar 12;369(1):1-9.

[2]. Bhargava HN, et al. Comparative effects of thyrotropin releasing hormone, MK-771 and DN-1417 on morphine abstinence syndrome. *Psychopharmacology (Berl).* 1985;87(2):141-6.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA