

α -Helical Corticotropin Releasing Factor (12-41)

Cat. No.:	HY-P3683
CAS No.:	158535-55-8
Molecular Formula:	C ₁₅₂ H ₂₅₁ N ₄₃ O ₄₇ S ₂
Molecular Weight:	3497.01
Sequence Shortening:	FHLLREMLEMAKAEQAEQAALNRLLEEA-NH2
Target:	CRFR
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	<p>α-Helical Corticotropin Releasing Factor (12-41) is a 30 amino acids long, α-helical analogue of corticotropin releasing factor/hormone. Corticotropin releasing factor (CRF) is a hypothalamic hormone, which stimulates the secretion of adrenocorticotrophic hormone (ACTH). α-Helical Corticotropin Releasing Factor (12-41) would suppress the stimulatory effect^{[1][2]}.</p>	
In Vitro	<p>α-Helical Corticotropin Releasing Factor (0.3 nM; 5-min pulses every 40 min alternately) shows the inhibitory effect on stimulated release of immunoreactive ACTH from perfused equine anterior pituitary cells in vitro.^[2]</p> <p>α-Helical Corticotropin Releasing Factor (0.5-5 μM) suppresses CRH-induced ACTH secretion^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	
In Vivo	<p>α-Helical Corticotropin Releasing Factor (12-41) (15-150 μg; s.c.; isolated for 30 or 60 min) suppresses the active behavioral response characteristic of guinea pig pups to brief isolation in novel surroundings^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	
	Animal Model:	Guinea pig pups (20-26 days old and) ^[1]
	Dosage:	15, 50, 150 μ g per animal
	Administration:	Subcutaneous injection; isolated in novel surroundings for 30 min or 60 min.
	Result:	<p>Resulted pups vocalized more and exhibited more locomotor activity in 20- to 26-day-old pups.</p> <p>Increased levels of vocalizing in isolated 4- to 6-day-old pups at 50 μg dose, though no changes were seen in locomotor activity.</p>

REFERENCES

[1]. Hennessy MB, et al. Evidence that endogenous corticotropin-releasing factor suppresses behavioral responses of guinea pig pups to brief isolation in novel surroundings. *Dev Psychobiol.* 1997 Jul;31(1):39-47.

[2]. Ellis M J, et al. The effects of corticotrophin-releasing hormone, arginine vasopressin and their antagonists on ACTH release from perfused horse anterior pituitary

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

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