

Product Data Sheet

[DPro5] Corticotropin Releasing Factor, human, rat

HY-P3684	
195628-97-8	
$C_{208}H_{344}N_{60}O_{63}S_{2}$	
4757.45	
SEEP-{d-Pro}-ISLDLTFHLLREVLEMARAEQLAQQAHSNRKLMEII-NH2	
CRFR	
GPCR/G Protein	
Please store the product under the recommended conditions in the Certificate of Analysis.	

Description	[DPro5] Corticotropin Releasing Factor, human, rat is a selective R2 agonist of corticotropin releasing factor/hormone. Corticotropin releasing factor (CRF) is a hypothalamic hormone, stimulates the release of adrenocorticotropic hormone (ACTH) and of β-endorphin. [DPro5] Corticotropin Releasing Factor, human, rat fails to cause the typical anxiogenic effect, but modulates learning and memory processes in rat ^[1] .		
In Vitro	[DPro5] Corticotropin Releasing Factor, human, rat (1 nM; 1 h) diminishes the amplitude of hippocampal population spike and prevents the onset of long-term potentiation (LTP) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	[DPro5] Corticotropin Releasing Factor, human, rat (0.01-1 μg; i.c.v.; single dose) doesn't induce the typical anxiogenic effect, but produces a nonspecific suppression of behavior in Sprague-Dowley rats. And [DPro5] Corticotropin Releasing Factor, human, rat also enhances the short-term memory to a maximum degree and prevented the memory loss induced by diazepam ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Sprague-Dowley rats ^[1]	
	Dosage:	0.01-1 µg	
	Administration:	Intracerebroventricular injection; single dose	
	Result:	Decreased the number of visits into the light box in the dark-light test.	

REFERENCES

[1]. Shabanov PD, et al. [Anxiogenic and mnestic effects of corticoliberin and its analogs introduced into the brain ventriculi of rats]. Eksp Klin Farmakol. 2006 Nov-Dec;69(6):3-8. Russian.

[2]. Rebaudo R, et al. Electrophysiological effects of sustained delivery of CRF and its receptor agonists in hippocampal slices. Brain Res. 2001 Dec 13;922(1):112-7.

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

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