

[DPro5] Corticotropin Releasing Factor, human, rat TFA

Cat. No.:	HY-P3684A
Molecular Formula:	$C_{208}H_{344}N_{60}O_{63}S_2 \cdot xC_2HF_3O_2$
Sequence:	Ser-Glu-Glu-Pro-[d-Pro]-Ile-Ser-Leu-Asp-Leu-Thr-Phe-His-Leu-Leu-Arg-Glu-Val-Leu-Glu-Met-Ala-Arg-Ala-Glu-Gln-Leu-Ala-Gln-Gln-Ala-His-Ser-Asn-Arg-Lys-Leu-Met-Glu-Ile-Ile-NH ₂ <small>SEEP-[d-Pro]-ISLDLTFHLLREVLEMARAEQLAQQAHSNRKLMEII-NH₂ (TFA salt)</small>
Sequence Shortening:	SEEP-[d-Pro]-ISLDLTFHLLREVLEMARAEQLAQQAHSNRKLMEII-NH ₂
Target:	CRFR
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture and light Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 50 mg/mL (Need ultrasonic)
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BIOLOGICAL ACTIVITY

Description	[DPro5] Corticotropin Releasing Factor, human, rat TFA is a selective corticotropin releasing factor/hormone R2 (CRH-R2) agonist. [DPro5] Corticotropin Releasing Factor, human, rat TFA fails to cause the typical anxiogenic effect, but modulates learning and memory processes in rat ^[1] .
In Vitro	[DPro5] Corticotropin Releasing Factor, human, rat TFA (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 TFA (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 TFA 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 mnesic 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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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