

CRF, bovine TFA

Cat. No.:	HY-P1533A
Molecular Formula:	C ₂₀₈ H ₃₄₁ F ₃ N ₆₀ O ₆₅ S
Molecular Weight:	4811.36
Sequence:	Ser-Gln-Glu-Pro-Pro-Ile-Ser-Leu-Asp-Leu-Thr-Phe-His-Leu-Leu-Arg-Glu-Val-Leu-Glu-Met-Thr-Lys-Ala-Asp-Gln-Leu-Ala-Gln-Gln-Ala-His-Asn-Asn-Arg-Lys-Leu-Leu-Asp-Ile-Ala-NH ₂
Sequence Shortening:	SQEPPISLDLTFHLLREVLEMTKADQLAQQAHHNRKLLDIA-NH ₂
Target:	CRFR
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

BIOLOGICAL ACTIVITY

Description	CRF, bovine (TFA) is a potent agonist of CRF receptor, and displaces [¹²⁵ I-Tyr]ovine CRF with a K _i of 3.52 nM ^[1] .
IC₅₀ & Target	Ki: 3.52 nM (CRF receptor) ^[1] .
In Vitro	CRF, bovine is a potent agonist of CRF receptor, and displaces [¹²⁵ I-Tyr]ovine CRF with a K _i of 3.52 nM ^[1] . CRF shows pEC ₅₀ s of 11.16, 8.53 and 8.70 for human CRF ₁ , human CRF ₂ and rat CRF _{2α} ^[2] . CRF is released from hypothalamic-pituitary-adrenal (HPA) axis induced by stress, and leads to production of glucocorticoids which down regulate immune responses. CRF also has proinflammatory effects. CRF affects brain microvessel endothelial cells (BMEC) structure or function, CRF (100 nM) significantly increases cAMP in BMEC ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. CRF, bovine is a potent agonist of CRF receptor, and displaces [¹²⁵I-Tyr]ovine CRF with a K_i of 3.52 nM^[1]. CRF shows pEC₅₀s of 11.16, 8.53 and 8.70 for human CRF₁, human CRF₂ and rat CRF
- [2]. Smart D, et al. Characterisation using microphysiometry of CRF receptor pharmacology. Eur J Pharmacol. 1999 Aug 27;379(2-3):229-35.
- [3]. Esposito P, et al. Corticotropin-releasing factor (CRF) can directly affect brain microvessel endothelial cells. Brain Res. 2003 Apr 11;968(2):192-8.

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

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