

α-Helical CRF(9-41) TFA

Cat. No.:	HY-P1294A	
Molecular Formula:	C ₁₆₈ H ₂₇₅ F ₃ N ₄₆ O ₅₅ S ₂	
Molecular Weight:	3940.42	
Sequence Shortening:	DLTFHLLREMLEMAKAEQAEQALNRLLEEA-NH ₂	DLTFHLLREMLEMAKAEQAEQALNRLLEEA-NH ₂ (TFA salt)
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)	

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 1.82 mg/mL (0.46 mM; ultrasonic and adjust pH to 3 with HCl)
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BIOLOGICAL ACTIVITY

Description α-Helical CRF(9-41) TFA is a competitive CRF2 receptor antagonist with K_B of ~100 nM. α-Helical CRF(9-41) TFA is also a partial agonist of CRF1 receptor with an EC₅₀ of 140 nM^{[1][2]}.

IC₅₀ & Target KB: ~100 nM (CRF2 receptor)^[2]
 EC₅₀: 140 nM (CRF1 receptor)^[2]

REFERENCES

- [1]. Sonia Tucci, et al. Corticotropin releasing factor antagonist, alpha-helical CRF(9-41), reverses nicotine-induced conditioned, but not unconditioned, anxiety. *Psychopharmacology (Berl)*. 2003 May;167(3):251-6.
- [2]. Smart D, et al. Characterisation using microphysiometry of CRF receptor pharmacology. *Eur J Pharmacol*. 1999 Aug 27;379(2-3):229-35.

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

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