

$\alpha$ -Helical CRF (9-41) TFA

## Chemical Properties

CAS No. :

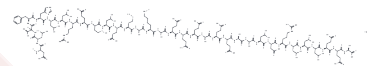
Formula: C166H274N46O53S2.XCF3COOH

Molecular Weight: 3826.36

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	$\alpha$ -Helical CRF (9-41) is a synthetic peptide antagonist that targets corticotropin-releasing factor (CRF), effectively inhibiting CRF-induced adrenocorticotrophic hormone (ACTH) release both in vitro, with isolated rat anterior pituitary cells at concentrations of 0.5 to 5 $\mu$ M, and in vivo, in non-anesthetized, intact rats at doses ranging from 0.02 to 0.6 $\mu$ mol/kg. Moreover, it prevents stress-induced ACTH release at a dose of 0.6 $\mu$ mol/kg in rats and demonstrates the ability to enhance social interaction times in a rat model addressing nicotine-induced conditioned anxiety, in addition to decreasing binge-like ethanol consumption in mice.
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## Solubility Information

Solubility	DMF: 30 mg/mL (7.84 mM), Sonication is recommended. DMSO: 30 mg/mL (7.84 mM), Sonication is recommended. Ethanol: 30 mg/mL (7.84 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2613 mL	1.3067 mL	2.6134 mL
5 mM	0.0523 mL	0.2613 mL	0.5227 mL
10 mM	0.0261 mL	0.1307 mL	0.2613 mL
50 mM	0.0052 mL	0.0261 mL	0.0523 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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