



## Product Information

**Product ID** C5772

**CAS No.** 86784-80-7

**Chemical Name**

**Synonym** CRF

**Formula** C<sub>208</sub>H<sub>344</sub>N<sub>60</sub>O<sub>63</sub>S<sub>2</sub>

**Formula Wt.** 4757.49

**Melting Point**

**Purity** ≥98%

**Solubility** Soluble in water(1 mg/mL).

**Store Temp** -20° C

**Ship Temp** Ambient

**Description** Corticotropin-releasing factor (CRF) is an endogenous neuropeptide hormone that is involved in stress responses, depression, anxiety, and other mood disorders. CRF binds CRF receptors, stimulating release of adrenocorticotrophic hormone (ACTH), cortisol, dehydroepiandrosterone (DHEA), and β-endorphin. CRF also modulates the duration of pregnancy and stimulates release of dehydroepiandrosterone (DHEA) in the fetal adrenal gland. High levels of CRF may be used as a biomarker to detect Alzheimer's disease or major depression.

Ser-Glu-Glu-Pro-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<sub>2</sub>

**Bulk quantities available upon request**

Product ID	Size
C5772	0.5 mg
C5772	1 mg
C5772	2.5 mg

**References** Lowry CA, Moore FL. Regulation of behavioral responses by corticotropin-releasing factor. *Gen Comp Endocrinol.* 2006 Mar;146(1):19-27. PMID: 16426606.

Arborelius L, Owens MJ, Plotsky PM, et al. The role of corticotropin-releasing factor in depression and anxiety disorders. *J Endocrinol.* 1999 Jan;160(1):1-12. PMID: 9854171.

Raadsheer FC, van Heerikhuize JJ, Lucassen PJ, et al. Corticotropin-releasing hormone mRNA levels in the paraventricular nucleus of patients with Alzheimer's disease and depression. *Am J Psychiatry.* 1995 Sep;152(9):1372-6. PMID: 7653697.

Lederis KP, Okawara Y, Richter D, et al. Evolutionary aspects of corticotropin releasing hormones. *Prog Clin Biol Res.* 1990;342:467-72. PMID: 2200028.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.