



# LKT Laboratories, Inc.

## Corticotropin Releasing Factor, cow

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### Product Information

Product ID C5770

CAS No. 92307-52-3

#### Chemical Name

Synonym CRF, CRH

Formula  $C_{206}H_{340}N_{60}O_{63}S$

Formula Wt. 4697.44

#### Melting Point

Purity  $\geq 95\%$

Solubility Insoluble in water. Soluble  
in acetonitrile.

Store Temp  $-20^{\circ}C$

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  $\beta$ -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.

H-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<sub>2</sub>

**Bulk quantities available upon request**

| Product ID | Size   |
|------------|--------|
| C5770      | 0.5 mg |
| C5770      | 1 mg   |
| C5770      | 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.