



LKT Laboratories, Inc.

Cortistatin-14

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Product Information

Product ID C5773

CAS No. 186901-48-4

Chemical Name

Synonym CST-14, Cortistatin 14 (mouse, rat)

Formula $C_{81}H_{113}N_{19}O_{19}S_2$

Formula Wt. 1721.02

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water.

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

Ship Temp Ambient

Description

Cortistatin-14 is an endogenous neuropeptide related to somatostatin that binds and activates somatostatin and ghrelin receptors, inhibiting secretion of growth hormone and insulin. Cortistatin-14 exhibits anticonvulsant/antiepileptic, anti-inflammatory, and antinociceptive activities. In animal models, cortistatin-14 decreases seizure duration. In macrophages, this peptide inhibits production of IL-1 β . Similarly, cortistatin-14 decreases capsaicin-induced release of CGRP in rat trachea and suppresses carrageenan-induced edema in other animal models.

H-Pro-Cys-Lys-Asn-Phe-Phe-Trp-Lys-Thr-Phe-Ser-Ser-Cys-Lys-OH
(Disulfide Bridge Cys2-Cys13)

Bulk quantities available upon request

Product ID	Size
C5773	0.5 mg
C5773	1 mg
C5773	2.5 mg

References

Aourz N, Portelli J, Coppens J, et al. Cortistatin-14 Mediates its Anticonvulsant Effects Via sst₂ and sst₃ but Not Ghrelin Receptors. CNS Neurosci Ther. 2014 Mar 31. [Epub ahead of print]. PMID: 24685142.

Markovics A, Szoke É, Sándor K, et al. Comparison of the anti-inflammatory and anti-nociceptive effects of cortistatin-14 and somatostatin-14 in distinct in vitro and in vivo model systems. J Mol Neurosci. 2012 Jan;46(1):40-50. PMID: 21695504.

Broglio F, Arvat E, Benso A, et al. Endocrine activities of cortistatin-14 and its interaction with GHRH and ghrelin in humans. J Clin Endocrinol Metab. 2002 Aug;87(8):3783-90. PMID: 12161511.

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