

## Cortistatin-14

|                      |                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------|
| Cat. No.:            | HY-P1932                                                                                                              |
| CAS No.:             | 186901-48-4                                                                                                           |
| Molecular Formula:   | C <sub>81</sub> H <sub>114</sub> N <sub>20</sub> O <sub>18</sub> S <sub>2</sub>                                       |
| Molecular Weight:    | 1720.03                                                                                                               |
| Sequence:            | {Pro}{Cys}{Lys}{Asn}{Phe}{Phe}{Trp}{Lys}{Thr}{Phe}{Ser}{Ser}{Cys}{Lys}-NH <sub>2</sub> (Disulfide bridge: Cys2-Cys13) |
| Sequence Shortening: | PCKNFFWKTFSSCK-NH <sub>2</sub> (Disulfide bridge: Cys2-Cys13)                                                         |
| Target:              | Somatostatin Receptor                                                                                                 |
| Pathway:             | GPCR/G Protein; Neuronal Signaling                                                                                    |
| Storage:             | Please store the product under the recommended conditions in the COA.                                                 |

### BIOLOGICAL ACTIVITY

#### Description

Cortistatin-14, a neuropeptide have structural similarity to somatostatin-14, binds and exerts its function via the somatostatin receptors (sst1-sst5). Cortistatin-14 shows anticonvulsive, neuroprotective effect and remarkable anti-inflammatory properties<sup>[1][2][3][4]</sup>.

### REFERENCES

- [1]. De Lecea L, et al. A cortical neuropeptide with neuronal depressant and sleep-modulating properties. *Nature*. 1996 May 16;381(6579):242-5.
- [2]. Baranowska B, et al. Cortistatin and pituitary hormone secretion in rat. *J Physiol Pharmacol*. 2009 Mar;60(1):151-6.
- [3]. Braun H, et al. Protective effects of cortistatin (CST-14) against kainate-induced neurotoxicity in rat brain. *Brain Res*. 1998 Aug 24;803(1-2):54-60.
- [4]. Markovics A, 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.

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

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