

Cyclic MKEY TFA

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| Cat. No.: | HY-P1949A |
| Molecular Formula: | C ₁₁₅ H ₁₇₅ F ₃ N ₂₈ O ₃₆ S ₂ |
| Molecular Weight: | 2644.89 |
| Sequence: | Cys-Lys-Glu-Tyr-Phe-Tyr-Thr-Ser-Ser-Lys-Ser-Ser-Asn-Leu-Ala-Val-Val-Phe-Val-Thr-Arg-Cys (Disulfide bridge:Cys1-Cys22) |
| Sequence Shortening: | CKEYFYTSSKSSNLAVFVTRC (Disulfide bridge:Cys1-Cys22) |
| Target: | Others |
| Pathway: | Others |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |

BIOLOGICAL ACTIVITY

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| Description | Cyclic MKEY TFA is a synthetic cyclic peptide inhibitor of CXCL4-CCL5 heterodimer formation, which protects against atherosclerosis and aortic aneurysm formation by mediating inflammation. Cyclic MKEY TFA also protects against stroke-induced brain injury in mice ^{[1][2]} . |
| IC₅₀ & Target | CXCL4-CCL5 ^[1] |

REFERENCES

- [1]. Fan Y, et al. MKEY, a Peptide Inhibitor of CXCL4-CCL5 Heterodimer Formation, Protects Against Stroke in Mice. *J Am Heart Assoc.* 2016 Sep 15;5(9). pii: e003615.
- [2]. Iida Y, et al. Peptide inhibitor of CXCL4-CCL5 heterodimer formation, MKEY, inhibits experimental aortic aneurysm initiation and progression. *Arterioscler Thromb Vasc Biol.* 2013 Apr;33(4):718-26.

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

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