

## Certificate of Analysis

**Product Name:** CTTHWGFTLC, CYCLIC (TFA)  
**Cat. No.:** CS-0131723  
**Batch No.:** 236419  
**Chemical Name:** L-Cysteine, L-cysteinyl-L-threonyl-L-threonyl-L-histidyl-L-tryptophylglycyl-L-phenylalanyl-L-threonyl-L-leucyl-, cyclic (1→10)-disulfide (TFA)

### PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Formula:**  $C_{54}H_{72}F_3N_{13}O_{16}S_2$   
**Molecular Weight:** 1280.35  
**Storage:** -80°C, 2 years; -20°C, 1 year (Protect from light, stored under nitrogen)  
**Chemical Structure:**

CTTHWGFTLC (Disulfide Bridge: Cys1-Cys10) (TFA salt)

### ANALYTICAL DATA

**Appearance:** White to off-white (Solid)  
**LCMS:** Consistent with structure  
**Purity (LCMS):** 98.60%  
**Conclusion:** The product has been tested and complies with the given specifications.

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

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