

## CTOP (TFA)

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Cat. No.: HY-P1329A  
Batch No.: 84774  
Chemical Name: L-Threoninamide, D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-ornithyl-L-threonyl-3-mercaptop-L-valyl-, cyclic (2→7)-disulfide (TFA)

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: C<sub>52</sub>H<sub>68</sub>F<sub>3</sub>N<sub>11</sub>O<sub>13</sub>S<sub>2</sub>  
Molecular Weight: 1176.28  
Storage: Protect from light  
Powder -80°C 2 years  
-20°C 1 years  
\* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

### Chemical Structure:

FCYW{Orn}T{Pen}T-NH<sub>2</sub>  
(Disulfide bridge:Cys2-Pen7) (TFA salt)

### ANALYTICAL DATA

Appearance: White to off-white (Solid)  
LCMS: Consistent with structure  
Purity (LCMS): 99.93%  
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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