

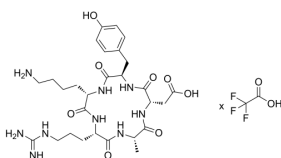
## Cyclo(Arg-Ala-Asp-(D-Tyr)-Lys) (TFA)

Cat. No.: HY-P5023A  
Batch No.: 342880  
Chemical Name: Cyclo(L-alanyl-L- $\alpha$ -aspartyl-D-tyrosyl-L-lysyl-L-arginyl) (xTFA salt)

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:  $C_{28}H_{43}N_9O_8 \cdot xC_2HF_3O_2$   
Molecular Weight: 633.70 (free acid)  
Storage: Sealed storage, away from moisture and light  
Powder -80°C 2 years  
-20°C 1 year  
\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

### Chemical Structure:



### ANALYTICAL DATA

Appearance: White to off-white (Solid)  
 $^1H$  NMR Spectrum: Consistent with structure  
LCMS: Consistent with structure  
Purity (LCMS): 99.52%  
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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