

## Human $\beta$ -defensin-1

**Cat. No.:** HY-P2315  
**CAS No.:** 452274-53-2  
**Batch No.:** 273482  
**Chemical Name:** L-Lysine, L- $\alpha$ -aspartyl-L-histidyl-L-tyrosyl-L-asparaginyl-L-cysteinyl-L-valyl-L-seryl-L-serylglycylglycyl-L-glutamyl-L-cysteinyl-L-leucyl-L-tyrosyl-L-seryl-L-alanyl-L-cysteinyl-L-prolyl-L-isoleucyl-L-phenylalanyl-L-threonyl-L-lysyl-L-isoleucyl-L-glutamylglycyl-L-threonyl-L-cysteinyl-L-tyrosyl-L-arginylglycyl-L-lysyl-L-alanyl-L-lysyl-L-cysteinyl-L-cysteinyl-, cyclic (5 $\rightarrow$ 34),(12 $\rightarrow$ 27),(17 $\rightarrow$ 35)-tris(disulfide)

### PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Formula:** C<sub>167</sub>H<sub>256</sub>N<sub>48</sub>O<sub>50</sub>S<sub>6</sub>  
**Molecular Weight:** 3928.53  
**Storage:** Sealed storage, away from moisture and light, under nitrogen  
 Powder      -80°C      2 years  
                  -20°C      1 years  
 \* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

**Chemical Structure:**

DHYNVSSGGQCLYSACPIFTKIQGTCTYRKAKDCK  
 (Disulfide bridge: Cys5-Cys34; Cys12-Cys27; Cys17-Cys35)

### ANALYTICAL DATA

**Appearance:** White to off-white (Solid)  
**MS:** Consistent with structure  
**Purity (HPLC):** 96.83%  
**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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