

## Certificate of Analysis

<b>Product Name:</b>	Human $\beta$ -defensin-1
<b>Cat. No.:</b>	CS-0129412
<b>CAS No.:</b>	452274-53-2
<b>Batch No.:</b>	273482
<b>Chemical Name:</b>	L-Lysine, L- $\alpha$ -aspartyl-L-histidyl-L-tyrosyl-L-asparaginyl-L-cysteinyl-L-valyl-L-seryl-L-serylglycylglycyl-L-glutaminy-L-cysteinyl-L-leucyl-L-tyrosyl-L-seryl-L-alanyl-L-cysteinyl-L-prolyl-L-iso-leucyl-L-phenylalanyl-L-threonyl-L-lysyl-L-iso-leucyl-L-glutaminyglycyl-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

<b>Molecular Formula:</b>	C <sub>167</sub> H <sub>256</sub> N <sub>48</sub> O <sub>50</sub> S <sub>6</sub>
<b>Molecular Weight:</b>	3928.53
<b>Storage:</b>	-80°C, 2 years; -20°C, 1 year (Sealed storage, away from moisture and light, under nitrogen)
<b>Chemical Structure:</b>	

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

### ANALYTICAL DATA

<b>Appearance:</b>	White to off-white (Solid)
<b>MS:</b>	Consistent with structure
<b>Purity (HPLC):</b>	96.83%
<b>Conclusion:</b>	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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