

## Certificate of Analysis

<b>Product Name:</b>	LL-37, human (TFA)
<b>Cat. No.:</b>	CS-0097770
<b>Batch No.:</b>	155031
<b>Chemical Name:</b>	L-Serine, L-leucyl-L-leucylglycyl-L- $\alpha$ -aspartyl-L-phenylalanyl-L-phenylalanyl-L-arginyl-L-lysyl-L-seryl-L-lysyl-L- $\alpha$ -glutamyl-L-lysyl-L-iso-leucylglycyl-L-lysyl-L- $\alpha$ -glutamyl-L-phenylalanyl-L-lysyl-L-arginyl-L-iso-leucyl-L-valyl-L-glutamyl-L-arginyl-L-iso-leucyl-L-lysyl-L- $\alpha$ -aspartyl-L-phenylalanyl-L-leucyl-L-arginyl-L-asparaginyl-L-leucyl-L-valyl-L-prolyl-L-arginyl-L-threonyl-L- $\alpha$ -glutamyl-, TFA

### PHYSICAL AND CHEMICAL PROPERTIES

<b>Molecular Formula:</b>	C <sub>205</sub> H <sub>340</sub> N <sub>60</sub> O <sub>53</sub> .C <sub>2</sub> HF <sub>3</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	4607.28
<b>Storage:</b>	-80°C, 2 years; -20°C, 1 year (Sealed storage, away from moisture)
<b>Chemical Structure:</b>	

LLGDFFRKSK EKIGKEFKRI VQRIKDFLRN LVPRTES (TFA salt)

### ANALYTICAL DATA

<b>Appearance:</b>	White to off-white (Solid)
<b>MS:</b>	Consistent with structure
<b>Purity (HPLC):</b>	99.61%
<b>Elemental Analysis</b>	
<b>Theoretical:</b>	C(-), H(-), N(-), Peptide Content( $\geq 60.0\%$ )
<b>Result:</b>	C(46.39%), H(7.37%), N(14.76%), Peptide Content(78.90%)
<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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