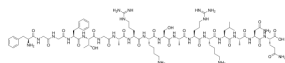


## Certificate of Analysis

<b>Product Name:</b>	Nociceptin
<b>Cat. No.:</b>	CS-7588
<b>CAS No.:</b>	170713-75-4
<b>Batch No.:</b>	116830
<b>Chemical Name:</b>	L-Glutamine, L-phenylalanylglycylglycyl-L-phenylalanyl-L-threonylglycyl-L-alanyl-L-arginyl-L-lysyl-L-seryl-L-alanyl-L-arginyl-L-lysyl-L-leucyl-L-alanyl-L-asparaginyl-

### PHYSICAL AND CHEMICAL PROPERTIES

<b>Molecular Formula:</b>	C <sub>79</sub> H <sub>129</sub> N <sub>27</sub> O <sub>22</sub>
<b>Molecular Weight:</b>	1809.04
<b>Storage:</b>	-80°C, 2 years; -20°C, 1 year (Sealed storage, away from moisture)
<b>Chemical Structure:</b>	



### ANALYTICAL DATA

<b>Appearance:</b>	White to off-white (Solid)
<b>MS:</b>	Consistent with structure
<b>Purity (HPLC):</b>	95.05%
<b>Elemental Analysis</b>	
<b>Theoretical:</b>	C(-)、H(-)、N(-)、Peptide Content(≥60.0%)
<b>Result:</b>	C(43.54%)、H(6.99%)、N(16.88%)、Peptide Content(80.80%)
<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.**

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite F, Monmouth Junction, NJ 08852, USA