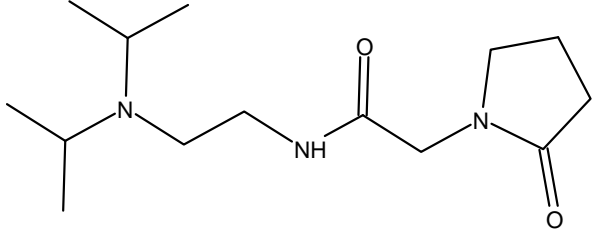


Certificate of Analysis

Product Name:	Lot#:	NuMega Reference #:
Pramiracetam	211022	2211EURO.163J

Chemical Name											
N-[2-(Diisopropylamino)ethyl]-2-(2-oxopyrrolidin-1-yl)acetamide											
Chemical Structure	Theoretical Analysis										
	<table> <tr> <td>Name:</td> <td>Pramiracetam</td> </tr> <tr> <td>Lot#</td> <td>211022</td> </tr> <tr> <td>Chemical Formula:</td> <td>C₁₄H₂₇N₃O₂</td> </tr> <tr> <td>Exact Mass:</td> <td>269.2103</td> </tr> <tr> <td>Molecular Weight:</td> <td>269.389</td> </tr> </table>	Name:	Pramiracetam	Lot#	211022	Chemical Formula:	C ₁₄ H ₂₇ N ₃ O ₂	Exact Mass:	269.2103	Molecular Weight:	269.389
Name:	Pramiracetam										
Lot#	211022										
Chemical Formula:	C ₁₄ H ₂₇ N ₃ O ₂										
Exact Mass:	269.2103										
Molecular Weight:	269.389										

	Specifications/ Results
Appearance	White solid
Structure	The H-1 NMR spectra of the sample is consistent with the structure of Pramiracetam.
Solubility	Dimethyl Sulfoxide
Conclusion	The results of experiments carried out on the sample are consistent with Pramiracetam.

Certified by: Ben Shen
Ben Shen, Ph.D.

Date: 11-22-23