

## Certificate of Analysis

Product Name:  $\beta$ -Endorphin (6-31) (human)  
Cat. No.: GA24009  
Batch No.: 1  
Chemical Name:

### PHYSICAL AND CHEMICAL PROPERTIES

Cas. No.: 77761-27-4  
Molecular Formula:  $C_{131}H_{218}N_{34}O_{40}$   
Molecular Weight: 2909.38  
Storage: Store at  $-20^{\circ}\text{C}$

Chemical Structure:



### ANALYTICAL DATA

Appearance: solid  
HNMR: Consistent with structure  
HPLC: Consistent with structure  
Purity: >98%  
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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