

## Certificate of Analysis

**Product Name:** GSK3 Substrate,  $\alpha$ ,  $\beta$  subunit  
**Cat. No.:** CS-0135102  
**Batch No.:** 261467  
**Chemical Name:** GSK3 Substrate,  $\alpha$ ,  $\beta$  subunit

### PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Formula:**  $C_{108}H_{169}N_{35}O_{42}$   
**Molecular Weight:** 2629.90  
**Storage:** -80°C, 2 years; -20°C, 1 year (Sealed storage, away from moisture and light, under nitrogen)  
**Chemical Structure:**

Arg-Ala-Ala-Val-Pro-Pro-Ser-Pro-Ser-  
Leu-Ser-Arg-His-Ser-Ser-Pro-His-Gln-  
Ser-Glu-Asp-Glu-Glu-Glu

### ANALYTICAL DATA

**Appearance:** White to off-white (Solid)  
**MS:** Consistent with structure  
**Purity (HPLC):** 99.87%  
**Elemental Analysis**  
**Theoretical:** C(-), H(-), N(-), Peptide Content( $\geq 60.0\%$ )  
**Result:** C(44.71%), H(7.15%), N(17.24%), Peptide Content(92.50%)  
**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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