

## Certificate of Analysis

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Product Name: Biotin-FRETS-VWF73 TFA  
Cat. No.: GC80371  
Batch No.: 1  
Chemical Name:

### PHYSICAL AND CHEMICAL PROPERTIES

Cas. No.:  
Molecular Formula:  $C_{380}H_{597}N_{105}O_{115}S_2 \cdot xC_2HF_3O_2$   
Molecular Weight: 8540.57  
Storage: Sealed storage, away from moisture

Chemical Structure: Biotin-Asp-Arg-Glu-{Dap(Nma)}-Ala-Pro-Asn-Leu-Val-Tyr-Met-Val-Thr-Gly-{Dap(Dnp)}-Pro-Ala-Ser-Asp-Glu-Ile-Lys-Arg-Leu-Pro-Gly-Asp-Ile-Gln-Val-Val-Pro-Ile-Gly-Val-Gly-Pro-Asn-Ala-Asn-Val-Gln-Glu-Leu-Glu-Arg-Ile-Gly-Trp-Pro-Asn-Ala-Pro-Ile-Leu-Ile-Gln-Asp-Phe-Glu-Thr-Leu-Pro-Arg-Glu-Ala-Pro-Asp-Leu-Val-Leu-Gln-Arg (TFA salt)

### ANALYTICAL DATA

Appearance: A solid  
HNMR: Consistent with structure  
HPLC: Consistent with structure  
Purity: >98.00%  
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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