

---

**Certificate of Analysis**

---

Product Name:  $\gamma$ 1-MSH  
Cat. No.: GC17002  
Batch No.: 1  
Chemical Name: (3S,4Z,6S,7Z,9S,10Z,12S,13Z,15S,16Z,19Z,21S,22Z,24S,25Z,27S)-15-((1H-imidazol-5-yl)methyl)-6-((1H-indol-3-yl)methyl)-27-amino-12-benzyl-3-((Z)-(((S,Z)-5-guanidino-1-hydroxy-1-(((S)-1-hydroxy-1-imino-3-phenylpropan-2-yl)imino)pentan-2-yl)imino)(hydroxy)met

**PHYSICAL AND CHEMICAL PROPERTIES**

Cas. No.: 72629-65-3  
Molecular Formula:  $C_{72}H_{97}N_{21}O_{14}S$   
Molecular Weight: 1512.74  
Storage: Store at  $-20^{\circ}C$   
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.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA