

## Analytical Data Sheet

Lot number **1000018272**  
not for drug use

**Catalog number** H-1075.0005  
**Product number** 4008476.0005  
**Product**  $\alpha$ - MSH trifluoroacetate salt  
Ac- Ser- Tyr- Ser- Met- Glu- His- Phe- Arg- Trp- Gly-  
Lys- Pro- Val- NH<sub>2</sub> trifluoroacetate salt  
**Molecular formula** C<sub>77</sub>H<sub>109</sub>N<sub>21</sub>O<sub>19</sub>S  
**Relative molecular mass** 1664.91

Tests	Results
<b>Appearance</b>	white lyophilisate
<b>Appearance of solution</b>	clear, colorless solution (10 mg/mL in 50 % acetic acid)
<b>Identification (ESI-MS)</b>	m = 1664.9u (average mass)
<b>Amino acid analysis</b>	Ser* 1.7 (2) Pro 1.0 (1) Phe 1.0 (1) Glx 1.0 (1) Tyr 1.0 (1) Trp det. (1) Gly 1.0 (1) Val 1.0 (1) His 1.0 (1) Met 1.0 (1) Arg 1.0 (1) Lys 1.0 (1)  * Ser partially destroyed during hydrolysis
<b>Purity (HPLC)</b>	98.2% (TFA) 98.0% (NaClO <sub>4</sub> )
<b>Assay (elemental analysis)</b>	79.7% (Nth 17.67 %, Nfd 14.09 %)
<b>General comment</b>	product is sensitive to oxidation

Latest update: July 16, 2019

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