

Rev01  
Update: Dec,28,2022

**DATASHEET**

# $\alpha$ -Melanocyte-Stimulating Hormone (MSH), amide

Cat. No.: RP10644

## Overview

|                            |   |
|----------------------------|---|
| <b>Synonyms</b>            | $\alpha$ -MSH, amidemelanotropin $\alpha$ -Melanocyte Stimulating Hormone; $\alpha$ Melanocyte Stimulating Hormone; a-Melanocyte Stimulating Hormone; aMelanocyte Stimulating Hormone; alpha-Melanocyte Stimulating Hormone; alphaMelanocyte Stimulating Hormone  |
| <b>Description</b>         | Alpha-MSH (alpha melanocyte-stimulating hormone) is an ancient tridecapeptide with potent inhibitory activity in all major forms of inflammation. ACTH has structural similarities to alpha-MSH. ACTH and alpha-MSH can induce grooming, stretching, yawning, penile erection responses in male rats, site of action in the brain and role of melanocortin receptors. |
| <b>Cas No</b>              | 581-05-5  |
| <b>Sequence</b>            | Ac-{SER}{TYR}{SER}{MET}{GLU}{HIS}{PHE}{ARG}{TRP}{GLY}{LYS}{PRO}{VAL}-NH <sub>2</sub>  |
| <b>Sequence Shortening</b> | Ac-SYSMEHFRWGKPV-NH <sub>2</sub>  |
| <b>Molecular Formula</b>   | C <sub>77</sub> H <sub>109</sub> N <sub>21</sub> O <sub>19</sub> S <sub>1</sub>   |
| <b>C Terminal</b>          | NH <sub>2</sub>   |
| <b>N Terminal</b>          | Ac  |
| <b>Molecular Weight</b>    | 1664.9  |

## Properties

|                |  |
|----------------|--|
| <b>Purity</b>  | > 95%  |
| <b>Form</b>    | Lyophilized  |
| <b>Storage</b> | Store the peptide at -20°C. Keep container tightly closed.   |
| <b>Note</b>    | Alpha-MSH is derived from ACTH 1-13. Alpha-MSH is a hormone that stimulates melanogenesis and facilitates learning and memory. Alpha-MSH can affect inflammatory and immune responses and peripheral nerve regeneration. |

## Examples

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N – Acetyl  
|  
Ser – Tyr – Ser – Met – Glu –  
His – Phe – Arg – Trp – Gly –  
Lys – Pro – Val – NH<sub>2</sub>

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