

**$\gamma$ -2-MSH (41-58), amide****Cat. No.:** RP20307-1**Size:** 1 mg**Description:**

Melanocortin (MC) 3-MSH (Melanocyte-Stimulating Hormone) is believed to signal through the MC 3 receptor. It induces a sustained increase in intracellular free calcium levels ( $[Ca^{2+}]_i$ ) in a subpopulation of pituitary cells. Most of the cells responding to 3-MSH express more than one pituitary hormone mRNA. The effect of 3-MSH is blocked by SHU9119, a MC3R and MC4R antagonist, in only 50% of the responsive cells, suggesting that in half of these cells the mediating receptor is not the MC3R. Low picomolar doses of 3-MSH increase  $[Ca^{2+}]_i$  in the growth hormone (GH)- and prolactin (PRL)-secreting GH3 cell line.

**Sequence (one-letter code):**

YVMGHFRWDRFG

**Sequence (three-letter code):**

{Tyr}{Val}{Met}{Gly}{His}{Phe}{Arg}{Trp}{Asp}{Arg}{Phe}{Gly}

**Formula:** C<sub>74</sub>H<sub>99</sub>N<sub>21</sub>O<sub>16</sub>S**Molecular Weight:** 1,570.78**Note:**

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