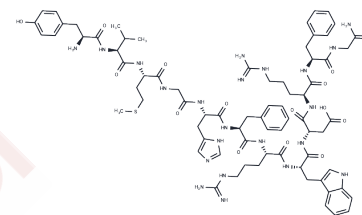


$\gamma$ -2-MSH (41-58), amide

## Chemical Properties

CAS No. :	799841-81-9
Formula:	C74H100N22O15S
Molecular Weight:	1569.79
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

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 <sup>2+</sup> ] <sub>i</sub> ) 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 <sup>2+</sup> ] <sub>i</sub> in the growth hormone (GH)- and prolactin (PRL)-secreting GH3 cell line.
Targets(IC50)	Melanocortin Receptor

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.637 mL	3.1851 mL	6.3703 mL
5 mM	0.1274 mL	0.637 mL	1.2741 mL
10 mM	0.0637 mL	0.3185 mL	0.637 mL
50 mM	0.0127 mL	0.0637 mL	0.1274 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Joseph CG, et al.  $\gamma_2$ -Melanocyte stimulation hormone ( $\gamma_2$ -MSH) truncation studies results in the cautionary note that  $\gamma_2$ -MSH is not selective for the mouse MC3R over the mouse MC5R. Peptides. 2010 Dec;31(12):2304-13.

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