



>>Entry Name: α -Melanotropin

Synonym(s): α -Melanocyte stimulating hormone. α -MSH

CAS Registry Number: 9061-59-0

Related CAS Registry Numbers(s): 581-05-5 28254-72-0 72550-04-0 76265-40-2 99223-39-9

Ac-Ser-Tyr-Ser-Met-Glu-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH₂

Molecular Formula: C₇₇H₁₀₉N₂₁O₁₉S

Molecular Weight: 1664.903

Accurate Mass: 1663.792934

Percentage Composition: C 55.55%; H 6.60%; N 17.67%; O 18.26%; S 1.93%

Biological Source: Hormone from posterior pituitary glands of pigs, cattle, horses and monkeys

Optical Rotation: $[\alpha]_{\text{D}}^{25}$ -63.2 (c, 0.38 in 1% AcOH)

Other Data: Isoelectric point at pH 10.5-11. A small no. of species variants have been investigated

References:

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Schally, A.V. *et al.*, *Arch. Biochem. Biophys.*, 1964, **107**, 332, (*isol*)

Eberle, A. *et al.*, *Helv. Chim. Acta*, 1975, **58**, 2106, (*synth*)

Yang, Y.C.S. *et al.*, *Int. J. Pept. Protein Res.*, 1980, **15**, 130, (*synth*)

Nikiforovich, G.V. *et al.*, *FEBS Lett.*, 1984, **170**, 315, (*conformn*)

Shizume, K., *Yale J. Biol. Med.*, 1985, **58**, 561, (*rev*)

Schwyzer, R., *Helv. Chim. Acta*, 1986, **69**, 1685, (*conformn*)

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