



>>Entry Name: β -Melanotropin

Synonym(s): β -Melanocyte stimulating hormone, 9Cl. β -MSH

Related CAS Registry Numbers(s): 53859-17-9 55159-40-5 55159-41-6 65002-14-4 75149-36-9 77367-64-7 99223-36-6 114479-92-4

H-Asp-Glu-Gly-Pro-Tyr-Lys-Met-Glu-His-Phe-Arg-Trp-Gly-Ser-Pro-Pro-Lys-Asp-OH

>>Variant: Porcine β -melanotropin

CAS Registry Number: 19941-13-0

Molecular Formula: $C_{98}H_{144}N_{28}O_{28}S$

Molecular Weight: 2194.452

Accurate Mass: 2193.042562

Percentage Composition: C 53.64%; H 6.61%; N 17.87%; O 20.41%; S 1.46%

Biological Source: Pituitary hormone from the pig

Sigma: M2018

>>Variant: Bovine β -melanotropin

Synonym(s): Seryl- β -MSH

CAS Registry Number: 17206-74-5

Molecular Formula: $C_{96}H_{136}N_{26}O_{28}S$

Molecular Weight: 2134.354

Accurate Mass: 2132.973814

Percentage Composition: C 54.02%; H 6.42%; N 17.06%; O 20.99%; S 1.50%

Biological Source: Pituitary hormone from cattle

Optical Rotation: $[\alpha]_D^{25} -57.5$ (c, 1 in 1M AcOH)

>>Variant: Monkey β -melanotropin

CAS Registry Number: 17750-75-3

Molecular Formula: $C_{98}H_{144}N_{30}O_{28}S$

Molecular Weight: 2222.466

Accurate Mass: 2221.04871

Percentage Composition: C 52.96%; H 6.53%; N 18.91%; O 20.16%; S 1.44%

Optical Rotation: $[\alpha]_D^{30} -50.7$ (c, 1 in 1M AcOH)

>>Variant: Equine β -melanotropin

CAS Registry Number: 58100-24-6

>>Variant: Human β -melanotropin

CAS Registry Number: 17908-57-5

Sigma: M6513

References:

- Harris, J.I. *et al.*, *Biochem. J.*, 1959, **71**, 434, (*struct*)
Li, C.H., *Surv. Biol. Prog.*, 1962, **4**, 93, (*struct*)
Pickering, B.T. *et al.*, *Biochim. Biophys. Acta*, 1963, **74**, 156, (*isol*)
Rittel, W. *et al.*, *Helv. Chim. Acta*, 1963, **46**, 1975, (*synth*)
Yajima, H. *et al.*, *J.A.C.S.*, 1968, **90**, 527, (*synth*)
Watanabe, H. *et al.*, *Chem. Pharm. Bull.*, 1975, **23**, 375, (*synth*)
LeMaire, S. *et al.*, *J. Med. Chem.*, 1977, **20**, 155, (*synth*)
Yang, Y.C.S. *et al.*, *Int. J. Pept. Protein Res.*, 1980, **15**, 130, (*synth*)
Izdebski, J. *et al.*, *Int. J. Pept. Protein Res.*, 1982, **19**, 327, (*synth*)
Richter, W.O. *et al.*, *J. Neurochem.*, 1985, **44**, 1697, (*hplc*)
Shizume, K., *Yale J. Biol. Med.*, 1985, **58**, 561, (*rev*)