



>>Entry Name: Glycylhistidylleucine

Gly-His-Leu

Molecular Formula: C₁₄H₂₃N₅O₄

Molecular Weight: 325.367

Accurate Mass: 325.175005

Percentage Composition: C 51.68%; H 7.12%; N 21.52%; O 19.67%

>>Variant: L-L-form

CAS Registry Number: 92431-47-5

Extra CAS Registry Numbers(s): 146295-48-9

Molecular Formula: C₁₄H₂₃N₅O₄

Molecular Weight: 325.367

Accurate Mass: 325.175005

Percentage Composition: C 51.68%; H 7.12%; N 21.52%; O 19.67%

Physical Description: Cryst. + H₂O (EtOH aq.)

Melting Point: Mp 240-242°

>>Derivative: N-Benzoyl

CAS Registry Number: 31373-65-6

Extra CAS Registry Numbers(s): 103404-54-2

Molecular Formula: C₂₁H₂₇N₅O₅

Molecular Weight: 429.475

Accurate Mass: 429.20122

Percentage Composition: C 58.73%; H 6.34%; N 16.31%; O 18.63%

Use/Importance: Substrate for angiotensin converting enzymes A and E

Physical Description: Cryst. (MeOH aq.)

>>Derivative: N-Benzyloxycarbonyl

CAS Registry Number: 80500-76-1

Molecular Formula: C₂₂H₂₉N₅O₆

Molecular Weight: 459.501

Accurate Mass: 459.211785

Percentage Composition: C 57.51%; H 6.36%; N 15.24%; O 20.89%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 185-187°

>>Derivative: N-Benzyloxycarbonyl, Me ester

CAS Registry Number: 66959-70-4

Molecular Formula: C₂₃H₃₁N₅O₆

Molecular Weight: 473.528

Accurate Mass: 473.227435

Percentage Composition: C 58.34%; H 6.60%; N 14.79%; O 20.27%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 187-188°

References:

- Schneider, F., *Z. Physiol. Chem.*, 1960, **321**, 38-48, (*N-benzyloxycarbonyl derivs*)
Cushman, D.W. *et al.*, *Biochem. Pharmacol.*, 1971, **20**, 1637-1648, (*N-benzoyl, synth, use*)
Inokuchi, J.I. *et al.*, *Biochim. Biophys. Acta*, 1981, **662**, 300-307, (*N-benzoyl, hplc*)
Mallis, L.M. *et al.*, *Anal. Chem.*, 1986, **58**, 1076-1080, (*N-benzoyl, ms*)
Hooper, N.M., *Biochem. J.*, 1990, **270**, 840-841, (*N-benzoyl, use*)
Schnaith, E. *et al.*, *Clin. Chim. Acta*, 1994, **227**, 145-158, (*N-benzoyl, use*)
Vrielink, A. *et al.*, *Acta Cryst. C*, 1996, **52**, 1300-1302, (*N-benzoyl, cryst struct, bibl*)