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>>Entry Name: Glycylhistidyllysine

**Related CAS Registry Numbers(s):** 130120-56-8  
H-Gly-His-Lys-OH

**Molecular Formula:** C<sub>14</sub>H<sub>24</sub>N<sub>6</sub>O<sub>4</sub>  
**Molecular Weight:** 340.381  
**Accurate Mass:** 340.185904  
**Percentage Composition:** C 49.40%; H 7.11%; N 24.69%; O 18.80%

>>Variant: L-L-form

**Synonym(s):** Growth-modulating factor. Liver cell growth factor

**CAS Registry Number:** 49557-75-7

**Molecular Formula:** C<sub>14</sub>H<sub>24</sub>N<sub>6</sub>O<sub>4</sub>  
**Molecular Weight:** 340.381  
**Accurate Mass:** 340.185904  
**Percentage Composition:** C 49.40%; H 7.11%; N 24.69%; O 18.80%  
**Biological Source:** Isol. from human serum and plasma  
**Use/Importance:** Growth promoter, involved in Cu transport

>>Derivative: Cu(II) complex, diacetate

**Synonym(s):** Prezatide copper acetate, INN, USAN. Iamin. PC 1020. GHK-Cu

**CAS Registry Number:** 130120-57-9

**Source/Synthesis:** Tripeptide-copper complex isol. from human plasma

**Use/Importance:** Growth factor for differentiated cells. Activates wound healing processes. Immunomodulator

**References:**

- Pickart, L. *et al.*, *Prep. Biochem.*, 1975, **5**, 397, (*isol*)  
Tanokura, M. *et al.*, *Biopolymers*, 1976, **15**, 393, (*pmr*)  
Schlesinger, D.H. *et al.*, *Experientia*, 1977, **33**, 324, (*synth, struct*)  
Kambara, H. *et al.*, *Org. Mass Spectrom.*, 1982, **17**, 67, (*ms*)  
Pickart, L., *Methods Enzymol.*, 1987, **147**, 314, (*rev*)  
Iwai, M., *CA*, 1989, **110**, 39348, (*synth*)  
Maquart, F.X. *et al.*, *J. Clin. Invest.*, 1993, **92**, 2368, (*Cu deriv, bibl, use*)