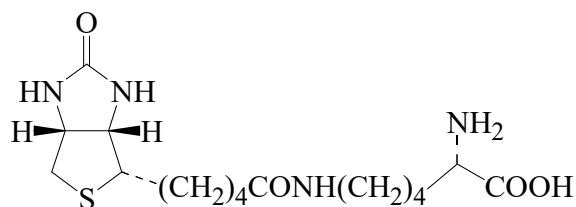




>>Entry Name: Biocytin

Synonym(s): *N*⁶-[5-(Hexahydro-2-oxo-1*H*-thieno[3,4-*d*]imidazol-4-yl)-1-oxopentyl]-L-lysine, 9Cl



Absolute
Configuration

CAS Registry Number: 576-19-2

Molecular Formula: C₁₆H₂₈N₄O₄S

Molecular Weight: 372.488

Accurate Mass: 372.183126

Percentage Composition: C 51.59%; H 7.58%; N 15.04%; O 17.18%; S 8.61%

Biological Source: Occurs in yeast and other microorganisms, eg. *Phycomyces blakesleeanus*

Physical Description: Cryst. (Me₂CO aq.)

Melting Point: Mp 243-246°

Optical Rotation: [α]_D²⁵+55 (c, 1 in 0.1*N* NaOH)

Other Data: Hydrol. → Biotin [JRM31-Z](#) and Lysine [BCS45-Z](#)

Fluka: 14409

Sigma: B4261

References:

Wright, L.D. *et al.*, *J.A.C.S.*, 1950, **72**, 1048; 1952, **74**, 1996; 2004, (*synth*)

Wolf, D.E. *et al.*, *J.A.C.S.*, 1952, **74**, 2002, (*synth*)

Weijlard, J. *et al.*, *J.A.C.S.*, 1954, **76**, 2505, (*synth*)

Bodansky, M. *et al.*, *J.A.C.S.*, 1977, **99**, 235, (*synth*)

Katsuki, H., *Method. Chim.*, 1977, **11**, 91, (*rev*)