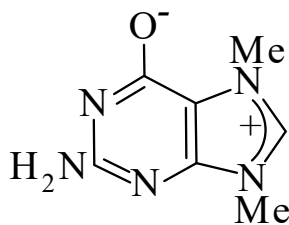




>>Entry Name: **Herbipoline**

Synonym(s): 2-Amino-6,9-dihydro-7,9-dimethyl-6-oxo-1*H*-purinium hydroxide, inner salt, 9Cl. 7,9-Dimethylguaninium betaine



CAS Registry Number: 524-35-6

Molecular Formula: C₇H₉N₅O

Molecular Weight: 179.181

Accurate Mass: 179.08071

Percentage Composition: C 46.92%; H 5.06%; N 39.09%; O 8.93%

Biological Source: Isol. from the giant silicious sponge *Geodia gigas*

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 312°

>>Derivative: Picrate

Melting Point: Mp 292-295°

>>Derivative: *N*¹-Me

CAS Registry Number: 97174-15-7

Molecular Formula: C₈H₁₂N₅O⁽⁺⁾

Molecular Weight: 194.216

Accurate Mass: 194.104185

Percentage Composition: C 49.47%; H 6.23%; N 36.06%; O 8.24%

Biological Source: From the marine sponge *Jaspis* sp.

Use/Importance: Collagenase inhibitor

Solubility: BERDY SOL: Sol. MeOH, Et₂O

UV: [neutral] λ_{max} 260 (ε 7600); 282 (ε 4460) (MeOH) (Berdy)

Other Data: Counterion in nat. prod. not characterised

References:

Ackermann, D. *et al.*, *Hoppe Seyler's Z. Physiol. Chem.*, 1957, **308**, 270; **309**, 286, (*isol, ir*)

Bredereck, H. *et al.*, *Chem. Ber.*, 1960, **93**, 1206, (*synth, struct*)

Yagi, H. *et al.*, *J. Nat. Prod.*, 1994, **57**, 837, (*1-Methylherbipoline*)