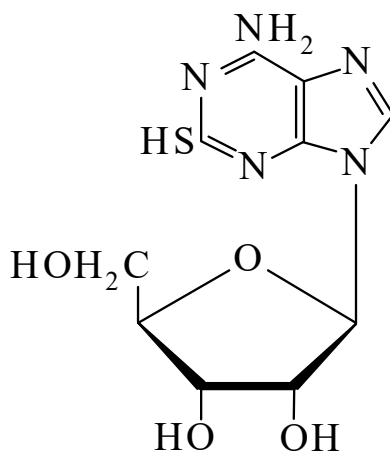




>>Entry Name: 2-Mercaptoadenosine

Synonym(s): 1,2-Dihydro-2-thioxoadenosine, 9Cl. 2-Thioadenosine



CAS Registry Number: 43157-50-2

Molecular Formula: C₁₀H₁₃N₅O₄S

Molecular Weight: 299.31

Accurate Mass: 299.068825

Percentage Composition: C 40.13%; H 4.38%; N 23.40%; O 21.38%; S 10.71%

Melting Point: Mp 196-199 dec.°

Optical Rotation: $[\alpha]_D^{25} -43.6$ (c, 0.5 in DMSO)

Sigma: T7534

>>Derivative: 5'-Phosphate

Synonym(s): 1,2-Dihydro-2-thioxo-5'-adenylic acid, 9Cl. 2-Mercapto-5'-adenylic acid. 2-Thio-5'-adenylic acid

CAS Registry Number: 59924-57-1

Molecular Formula: C₁₀H₁₄N₅O₇PS

Molecular Weight: 379.29

Accurate Mass: 379.035157

Percentage Composition: C 31.67%; H 3.72%; N 18.46%; O 29.53%; P 8.17%; S 8.45%

Physical Description: Powder

Other Data: Dimerizes very easily by aerial oxidn.

>>Derivative: S-Me

Synonym(s): 2-(Methylthio)adenosine, 9Cl

CAS Registry Number: 4105-39-9

Molecular Formula: C₁₁H₁₅N₅O₄S

Molecular Weight: 313.337

Accurate Mass: 313.084475

Percentage Composition: C 42.17%; H 4.83%; N 22.35%; O 20.42%; S 10.23%

Melting Point: Mp 228-229.5°

>>Derivative: S-Me, 5'-phosphate

Synonym(s): 2-(Methylthio)-5'-adenylic acid, 9Cl. 2-(Methylthio)-AMP

CAS Registry Number: 22140-20-1

Molecular Formula: C₁₁H₁₆N₅O₇PS

Molecular Weight: 393.316

Accurate Mass: 393.050807

Percentage Composition: C 33.59%; H 4.10%; N 17.81%; O 28.47%; P 7.88%; S 8.15%

Use/Importance: Specific inhibitor of platelet aggregation

Melting Point: Mp 192-195 dec.°

>>Derivative: S-Me, 5'-triphosphate