Poster Presentation

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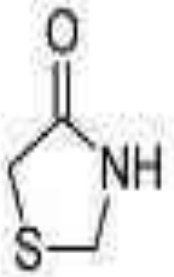
Crystal Structures of 1,3-Thiaza-4-one Heterocycles

H. Yennawar[1], L. Silverberg[2], J. Tierney[3], K. Cannon[4], R. Bendinsky[2], A. Cali[2], D. Coyle[2], M. Minehan[2]

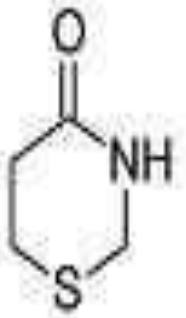
[1]Pennsylvania State University, University Park Campus, University Park, USA, [2]Pennsylvania State University, Schuylkill Campus, Schuylkill Haven, USA, [3]Pennsylvania State University, Brandywine Campus, Media, USA, [4]Pennsylvania State University, Abington Campus, Abington, USA

The five-, six-, and seven-membered 1,3-thiaza-4-one heterocycles are known for their bioactivity. Five-membered 1,3-thiazolidin-4-ones are known to have a very wide range of biological activity, so much that the ring system has been referred to as a "magic moiety" or "wonder nucleus" [1]. Six-membered 1,3-thiazin-4-ones have often been investigated for their biological activity and are of potential medicinal use [2]. The activity of seven-membered 1,3-thiazepan-4-ones is exemplified by the investigational compound omapatrilat [3]. Crystal structures of 1,3-thiaza-4-one heterocycles recently obtained in our laboratory will be presented.

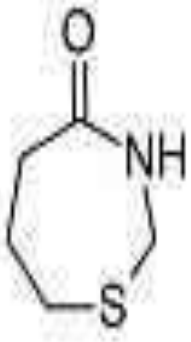
[1] *Abhinit, M., Ghodke M., Pratima N.A., (2009) Int. J. Pharmacy Pharm. Sci. 1, 47-64,* ***[2]*** *Ryabukhin Y.I., Korzhavina O.B., Suzdalev K.F., (1996) Adv. Het. Chem. 66, 131-191,* ***[3]*** *Tabrizchi R. (2001) Current Opinion in Investigational Drugs 2, 1414-1422*



1,3-thiazolidin-4-one



1,3-thiazin-4-one



1,3-thiazepan-4-one

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