

Mehta PD, Pathak AK. Synthesis, characterization and *in vitro* antimicrobial activity of novel 4,4'-bis[3-chloro-4-aryl-azetid-2-one-1-yl]diphenyl sulphones. *Bull. Pharm. Res.* 2011;1(3): 38-48.

### References (31):

1. Aoyama Y, Uenaka M, Kii M, Tanaka M, Konoike T, Hayasaki-Kajiwara Y, Naya N, Nakajima M. Design, synthesis and pharmacological evaluation of 3-benzylazetid-2-one-based human chymase inhibitors. *Bioorg. Med. Chem.* 2001;9(11):3065-75.  
<http://www.sciencedirect.com/science/article/pii/S0968089601002097>
2. Burnett DA, Caplen MA, Jr. Davis HR, Burrier RE, Clader JW. 2-Azetidinones as inhibitors of cholesterol absorption. *J. Med. Chem.* 1994;37(12):1733-6.  
<http://pubs.acs.org/doi/abs/10.1021/jm00038a001>
3. Dahiya R, Gautam H. Solution phase synthesis and bioevaluation of cordyheptapeptide B. *Bull. Pharm. Res.* 2011;1(1):1-10.  
<http://www.appconnect.in/wp-content/uploads/2011/05/FirstPagePreviewBPR001.pdf>
4. Delpiccolo CML, Fraga MA, Mata EG. An efficient, stereoselective solid-phase synthesis of  $\beta$ -lactams using mukaiyama's salt for the staudinger reaction. *J. Comb. Chem.* 2003; 5(3):208-10.  
<http://pubs.acs.org/doi/abs/10.1021/cc020107d>
5. El-Gaby MSA, Atalla AA, Gaber AM, Abd Al-Wahab KA. Studies on aminopyrazoles: antibacterial activity of some novel pyrazolo[1,5-*a*]pyrimidines containing sulfonamido moieties. *IL Farmaco* 2000;55(9-10): 596-602.  
<http://www.sciencedirect.com/science/article/pii/S0014827X00000793>
6. El-Gaby MSA, Gaber AM, Atalla AA, Abd Al-Wahab KA. Novel synthesis and antifungal activity of pyrrole and pyrrolo[2,3-*d*]pyrimidine derivatives containing sulfonamido moieties. *IL Farmaco* 2002;57(8):613-7.  
<http://www.sciencedirect.com/science/article/pii/S0014827X01011788>
7. Elslager EF, Gavrilis ZB, Phillips AA, Worth DF. Repository drugs. IV. 4',4'''-Sulfonylbisacetanilide (acedapsone, DAD DS) and related sulfanilylanilides with prolonged antimalarial and antileprotic action. *J. Med. Chem.* 1969;12(3):357-63.  
<http://pubs.acs.org/doi/abs/10.1021/jm00303a003>
8. Firestone RA, Barker PL, Pisano JM, Ashe BM, Dahlgren ME. Monocyclic  $\beta$ -lactam inhibitors of human leukocyte elastase. *Tetrahedron* 1990;46(7):2255-62.  
<http://www.sciencedirect.com/science/article/pii/S0040402001820068>
9. George GI. The Organic Chemistry of  $\beta$ -Lactams, VCH Publications: New York, 1993.

10. Goel RK, Mahajan MP, Kulkarni SK. Evaluation of anti-hyperglycemic activity of some novel monocyclic beta lactams. *J. Pharm. Pharm. Sci.* 2004;7(1):80-3.  
[http://www.ualberta.ca/~csps/JPPS7\(1\)/R.Goel/betalactams.pdf](http://www.ualberta.ca/~csps/JPPS7(1)/R.Goel/betalactams.pdf)
11. Gootz TD. Discovery and development of new antimicrobial agents. *Clin. Microbiol. Rev.* 1990;3(1):13-31.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC358138/pdf/cmr00046-0025.pdf>
12. Guillon CD, Koppel GA, Brownstein MJ, Chaney MO, Ferris CF, Lu S-f, Fabio KM, Miller MJ, Heindel ND, Hunden DC, Cooper RDG, Kaldor SW, Skelton JJ, Dressman BA, Clay MP, Steinberg MI, Bruns RF, Simon NG. Azetidinones as vasopressin V1a antagonists. *Bioorg. Med. Chem.* 2007;15 (5):2054-80.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2067992/pdf/nihms18208.pdf>
13. Han WT, Trehan AK, Wright JJK, Federici ME, Seiler SM, Meanwell NA. Azetidin-2-one derivatives as inhibitors of thrombin. *Bioorg. Med. Chem.* 1995;3(8):1123-43.  
<http://www.sciencedirect.com/science/article/pii/S096808969500101L>
14. Knight WB, Green BG, Chabin RM, Gale P, Maycock AL, Weston H, Kuo DW, Westler WM, Dorn CP. Specificity, stability and potency of monocyclic beta-lactam inhibitors of human leukocyte elastase. *Biochemistry* 1992;31(35): 8160-70.  
<http://pubs.acs.org/doi/abs/10.1021/bi00150a007>
15. Kumar A, Rajput CS. Synthesis and anti-inflammatory activity of newer quinazolin-4-one derivatives. *Eur. J. Med. Chem.* 2009;44(1):83-90.  
<http://www.sciencedirect.com/science/article/pii/S0223523408001414>
16. Maiti SN, Babu RPK, Shan R. Overcoming bacterial resistance: Role of  $\beta$ -lactamase inhibitors. *Top. Heterocycl. Chem.* 2006;2:207-46.  
<http://www.springerlink.com/content/57t835674638517t/>
17. Maren TH. Relations between structure and biological activity of sulfonamides. *Ann. Rev. Pharmacol. Toxicol.* 1976;16:309-27.  
<http://www.annualreviews.org/doi/abs/10.1146/annurev.pa.16.040176.001521>
18. Mehta PD, Sengar NPS, Pathak AK. 2-Azetidinone--a new profile of various pharmacological activities. *Eur. J. Med. Chem.* 2010;45(12):5541-60.  
<http://www.sciencedirect.com/science/article/pii/S0223523410006835>
19. Morin RB, Gorman M. Chemistry and Biology of  $\beta$ -lactam Antibiotics, Vol. 2, Academic Press: London, 1982; 114.
20. Risi CD, Pollini GP, Veronese AC., Bertolasi V. A new simple route for the synthesis of ( $\pm$ )-2-azetidinones starting from  $\beta$ -enaminoketoesters. *Tetrahedron* 2001;57(51):10155-161.  
<http://144.206.159.178/FT/986/46709/832312.pdf>

21. Singh GS. Beta-lactams in the new millennium. Part-1: monobactams and carbapenems. *Mini. Rev. Med. Chem.* 2004;4(1):69-92.  
<http://www.ncbi.nlm.nih.gov/pubmed/14754445>
22. Singh GS. Recent progress in the synthesis and chemistry of azetidinones. *Tetrahedron* 2003;59(39):7631-49.  
<http://144.206.159.178/FT/986/198447/5061891.pdf>
23. Singh R, Micetich RG. Monobactams as enzyme inhibitors. *IDrugs* 2000;3(5):512-7.  
<http://www.ncbi.nlm.nih.gov/pubmed/16100683>
24. Slusarchyk WA, Bolton SA, Hartl KS, Huang MH, Jacobs G, Meng W, Ogletree ML, Pi Z, Schumacher WA, Seiler SM, Sutton JC, Treuner U, Zahler R, Zhao G, Bisacchi GS. Synthesis of potent and highly selective inhibitors of human tryptase. *Bioorg. Med. Chem. Lett.* 2002;12(21):3235-8.  
<http://www.sciencedirect.com/science/article/pii/S0960894X02006893>
25. Sperka T, Pitlik J, Bagossi P, Tozser J. Beta-lactam compounds as apparently uncompetitive inhibitors of HIV-1 protease. *Bioorg. Med. Chem. Lett.* 2005;15(12):3086-90.  
<http://www.sciencedirect.com/science/article/pii/S0960894X05004804>
26. Srivastava SK, Srivastava S, Srivastava SD. Synthesis of new carbazoyl-thiazol-2-oxo-azetidines antimicrobial, anticonvulsant and anti-inflammatory agents. *Indian J. Chem. B* 1999;38:183-7.
27. Staudinger H. Zur Kenntniss der Ketene. Diphenylketen. *Justus Liebigs Ann. Chem.* 1907;356(1-2):51-123.  
<http://www.mendeley.com/research/zur-kenntniss-der-ketene-diphenylketen/>
28. Supuran CT, Scozzafava A, Jurca BC, Iliés MA. Carbonic anhydrase inhibitors - Part 49: Synthesis of substituted ureido and thioureido derivatives of aromatic/hetero- cyclic sulfonamides with increased affinities for isozyme I. *Eur. J. Med. Chem.* 1998;33(2):83-93.  
<http://www.sciencedirect.com/science/article/pii/S0223523498800330>
29. Veinberg G, Bokaldere R, Dikovskaya K, Vorona M, Mucel D, Kazhoka Kh, Turovskis I, Shestakova I, Kanepe I, Domrachova I, Lukevics E. Synthesis of penicillin derivatives and study of their cytotoxic properties. *Chem. Het. Compd.* 1998;34(11):1266-75.  
<http://www.springerlink.com/content/7n47466236228538/>
30. Vergely I, Laugaa P, Reboud-Ravaux M. Interaction of human leukocyte elastase with a N-aryl azetidinone suicide substrate: Conformational analyses based on the mechanism of action of serine proteinases. *J. Mol. Graph.* 1996;14(3):158-67.  
<http://www.sciencedirect.com/science/article/pii/S0263785596000574>
31. Wolf R, Matz H, Orion E, Tuzun B, Tuzun Y. Dapsone. *Dermatol. Online J.* 2002;8(1):2.  
<http://dermatology.cdlib.org/DOJvol8num1/reviews/dapsone/wolf.html>