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A computational study of the resistance of HIV-1 aspartic protease to the inhibitors ABT-538 and VX-478 and design of new analogues

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#	Paper	IF	Citations
22	Aspartic protease inhibitors. An integrated approach for the design and synthesis of diaminiol-based peptidomimetics. <i>FEBS Journal</i> , 2000 , 267, 1715-22		22
21	Computational design of new cyclic urea inhibitors for improved binding of HIV-1 aspartic protease. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 268, 384-9	3.4	4
20	Amprenavir: a new human immunodeficiency virus type 1 protease inhibitor. <i>Clinical Therapeutics</i> , 2000 , 22, 549-72	3.5	44
19	Computational studies on HIV-1 protease inhibitors: influence of calculated inhibitor-enzyme binding affinities on the statistical quality of 3D-QSAR CoMFA models. <i>Journal of Medicinal Chemistry</i> , 2000 , 43, 4446-51	8.3	64
18	Design and synthesis of novel [60]fullerene derivatives as potential HIV aspartic protease inhibitors. <i>Organic Letters</i> , 2000 , 2, 3955-8	6.2	98
17	Molecular dynamics studies on HIV-1 protease: Drug resistance and folding pathways. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001 , 43, 365-372	4.2	33
16	Homology modeling of the estrogen receptor subtype beta (ER-beta) and calculation of ligand binding affinities. <i>Journal of Molecular Graphics and Modelling</i> , 2001 , 20, 155-67	2.8	23
15	Kinetic and molecular modeling of nucleoside and nucleotide inhibition of malate dehydrogenase. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2002 , 21, 813-23	1.4	3
14	The solution structures of the HIV protease inhibitor DG35-VIII. <i>Molecular Simulation</i> , 2002 , 28, 827-843	2	1
13	Computational studies on tetrahydropyrimidine-2-one HIV-1 protease inhibitors: improving three-dimensional quantitative structure-activity relationship comparative molecular field analysis models by inclusion of calculated inhibitor- and receptor-based properties. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 973-83	8.3	58
12	Inhibition of <i>Candida albicans</i> secreted aspartic protease by a novel series of peptidomimetics, also active on the HIV-1 protease. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 297, 1350-3	3.4	21
11	Comparative study of some energetic and steric parameters of the wild type and mutants HIV-1 protease: a way to explain the viral resistance. <i>Journal of Cellular and Molecular Medicine</i> , 2002 , 6, 251-60	5.6	5
10	Computational studies of the resistance patterns of mutant HIV-1 aspartic proteases towards ABT-538 (ritonavir) and design of new derivatives. <i>Journal of Molecular Graphics and Modelling</i> , 2002 , 21, 171-9	2.8	11
9	Synthesis and evaluation of 17alpha-20E-21-(4-substituted phenyl)-19-norpregna-1,3,5(10),20-tetraene-3,17beta-diols as probes for the estrogen receptor alpha hormone binding domain. <i>Journal of Medicinal Chemistry</i> , 2003 , 46, 2865-76	8.3	27
8	Molecular modeling of the binding of 5-substituted 2-deoxyuridine substrates to thymidine kinase of herpes simplex virus type-1. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2004 , 23, 555-65	1.4	5
7	Synthesis and evaluation of (17alpha,20Z)-21-(4-substituted-phenyl)-19-norpregna-1,3,5(10),20-tetraene-3,17beta-diols as ligands for the estrogen receptor-alpha hormone binding domain: comparison with 20E-isomers. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 4300-11	8.3	15
6	Evaluation of a neural networks QSAR method based on ligand representation using substituent descriptors. Application to HIV-1 protease inhibitors. <i>Journal of Molecular Graphics and Modelling</i> , 2006 , 25, 37-45	2.8	5

- 5 Synthesis and evaluation of isomeric (17 α ,20E)-11 β -methoxy-21-(trifluoromethylphenyl)-19-norpregna-1,3,5(10),20-tetraene-3,17 β -diols as ER α -hormone binding domain ligands: effect of the methoxy group on receptor binding and uterotrophic growth. *Journal of Medicinal Chemistry*, **2007**, 50, 472-9 8.5 10
- 4 Catalytic contributions from remote regions of enzyme structure. *Chemical Reviews*, **2011**, 111, 7595-6248.1 59
- 3 Synthesis and evaluation of 17 β -(dimethylphenyl)vinyl estradiols as probes of the estrogen receptor-ligand binding domain. *Steroids*, **2012**, 77, 471-6 2.8 11
- 2 An in silico pharmacological approach toward the discovery of potent inhibitors to combat drug resistance HIV-1 protease variants. *Journal of Cellular Biochemistry*, **2019**, 120, 9063-9081 4.7 10
- 1 Inhibitors of the Human Immunodeficiency Virus Protease. 113-135