Electronic Supporting Information

Poly(ADP-Ribose) Polymerase (PARP) Inhibitors for Cancer Therapy: Advances, Challenges, and Future Directions

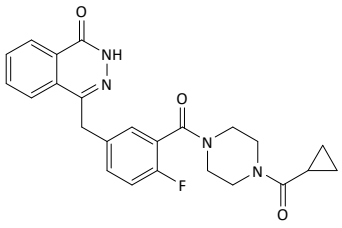
Denys Bondar[1] and Yevgen Karpichev[1]

[1] Department of Chemistry and Biotechnology, Tallinn University of Technology (TalTech), Tallinn, Estonia

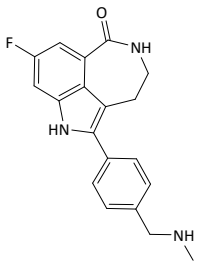
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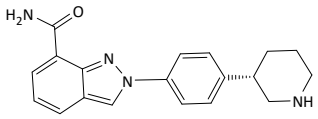
Figure S1. Structure of the compounds and their corresponding codes as referenced in this work.



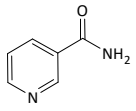
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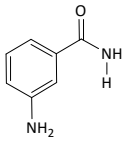
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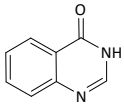
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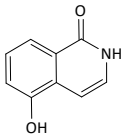
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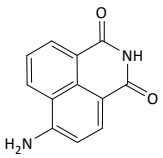
3-aminobenzamide **5**



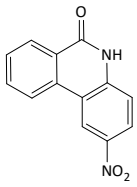
Quinazoli*n*one 6



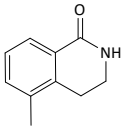
5-hydroxy isoquinolin-1(2*H*)-one **7**



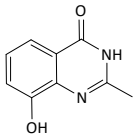
6-amino-1*H*-benzo[*de*] isoquinoline-1,3(2*H*)-dione **8**



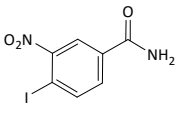
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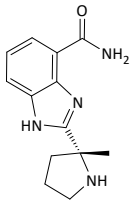
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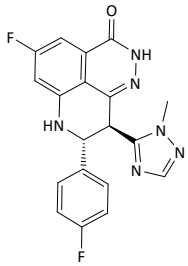
8-hydroxy-2-methyl quinazolin-4(3*H*)-one **11**



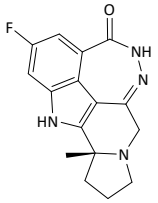
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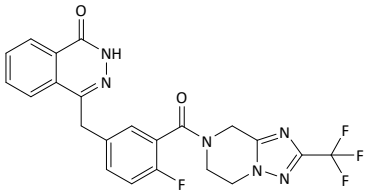
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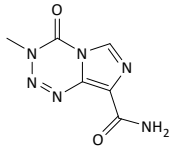
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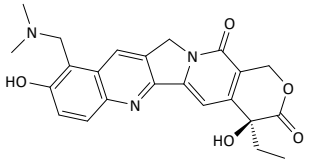
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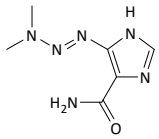
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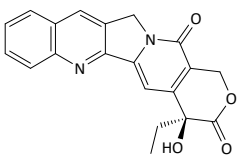
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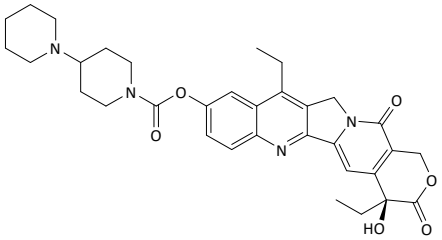
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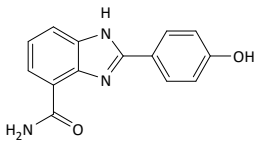
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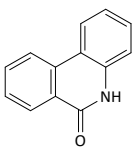
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Irinotecan **21**

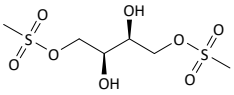


2-(4-hydroxyphenyl)-1 *H*-benzo[*d*] imidazole-4-carboxamide **22**

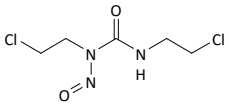


6(5*H*)-phenanthridinone **23**

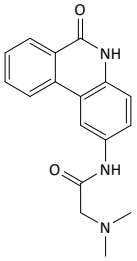
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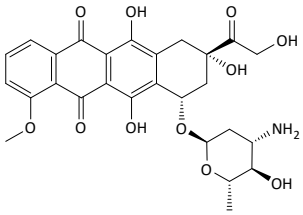
L-threitol-1,4-bis methanesulfonate **24**



carmustine **25**



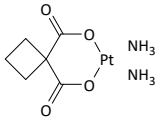
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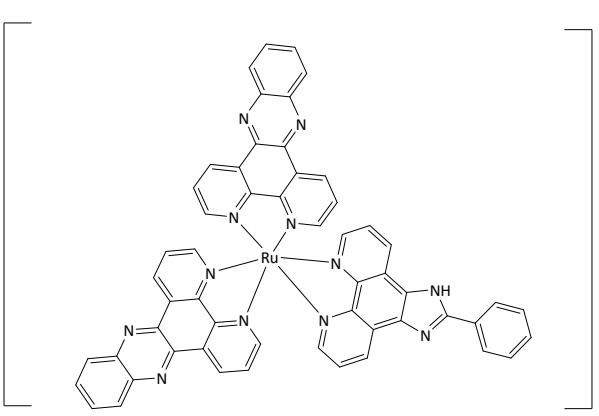
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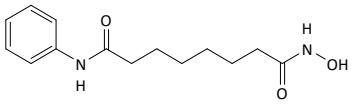
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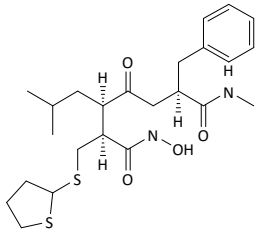
Carboplatin **29**



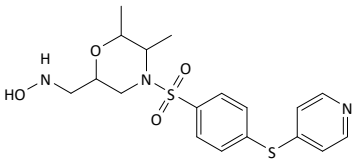
[Ru(dppz)2(PIP)]$^{2+}$ **30**



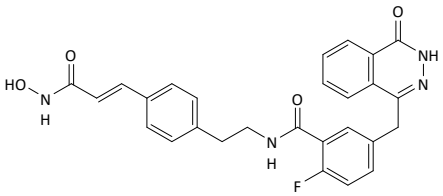
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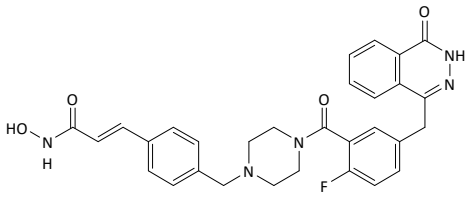
Batimastat **32**



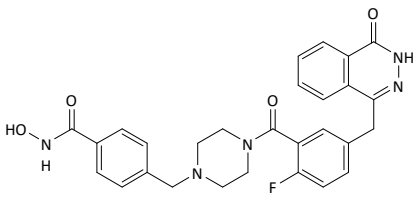
Prinomastat **33**



(*E*)-2-fluoro-*N*-(4-(3-(hydroxyamino)-3-oxoprop-1-en-1-yl)phenethyl) -5-((4-oxo-3,4-dihydrophthalazin-1-yl)methyl)benzamide **34**

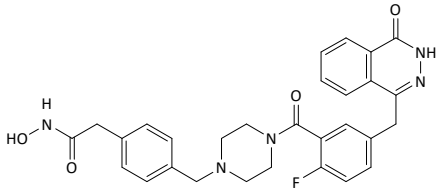


(*E*)-3-(4-((4-(2-fluoro-5-((4-oxo-3,4-dihydrophthalazin-1-yl)methyl) benzoyl)piperazin-1-yl)methyl)phenyl)-*N*-hydroxyacrylamide **35**

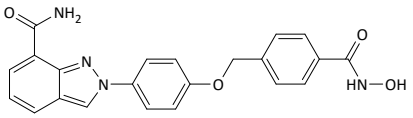


2-(4-((4-(2-fluoro-5-((4-oxo-3,4-dihydrophthalazin-1-yl)methyl) benzoyl)piperazin-1-yl)methyl)phenyl)-*N*-hydroxyacetamide **36**

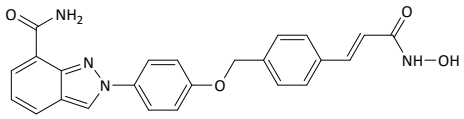
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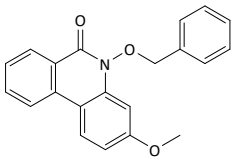
4-((4-(2-fluoro-5-((4-oxo-3,4-dihydrophthalazin-1-yl)methyl) benzoyl)piperazin-1-yl)methyl)- *N*-hydroxybenzamide **37**



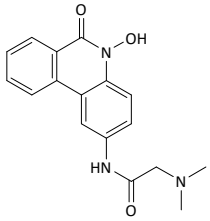
2-(4-((4-(hydroxycarbamoyl)benzyl)oxy) phenyl)-2*H*-indazole-7-carboxamide **38**



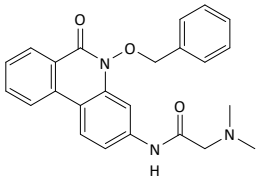
(*E*)-2-(4-((4-(3-(hydroxyamino)-3-oxoprop-1-en-1-yl) benzyl)oxy)phenyl)-2 *H*-indazole-7-carboxamide **39**



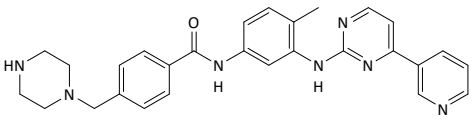
5-(benzyloxy)-3-methoxy phenanthridin-6(5*H*)-one **40**



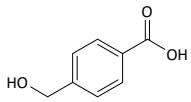
2-(dimethylamino)- *N*-(5-hydroxy-6-oxo-5,6-dihydrophenanthridin-2-yl)acetamide **41**



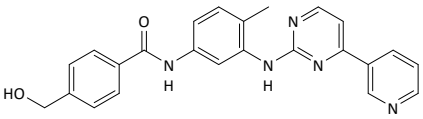
N-(5-(benzyloxy)-6-oxo-5,6-dihydro phenanthridin-3-yl)-2-(dimethylamino)acetamide **42**



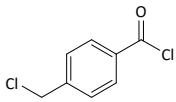
Imatinib **43**



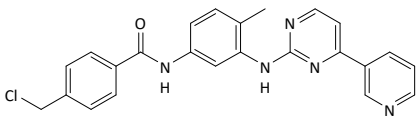
4-(hydroxymethyl)benzoic acid **44**



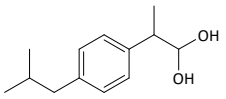
4-(hydroxymethyl)- *N*-(4-methyl-3-((4-(pyridin-3-yl) pyrimidin-2-yl)amino)phenyl)benzamide **45**



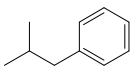
4-(chloromethyl)benzoyl chloride **46**



4-(chloromethyl)- *N*-(4-methyl-3-((4-(pyridin-3-yl) pyrimidin-2-yl)amino)phenyl)benzamide **47**



Ibuprofen **48**



isobutylbenzene **49**



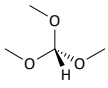
propionic acid **50**



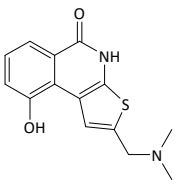
(Diacetoxyiodo) benzene **51**



triflic acid **52**



trimethoxy methane **53**



HYDAMTIQ **54**