Drug	Smile	Similarity %	Database/T ools	Activity	Structure	Reference
N,N'-[1,12- Dodecanediylbis(imino- 3,1-propanediyl)]bis(2,5- dimethoxybenzamide)	COc1ccc(OC)c(c1)C(=O )NCCCNCCCCCCCC CCCNCCCNC(=O)c2cc( OC)ccc2OC	91.3	ChEMBL	antimalarial polyamines		45
N,N'-1,8- Octanediylbis(2,3,4- trihydroxybenzamide)	Oc1ccc(C(=O)NCCCCC CCCNC(=O)c2ccc(O)c( O)c2O)c(O)c1O	88.9	ChEMBL	anti-HCV inhibitors.		51
2-hydroxy-N-[6-[(2- hydroxy-5- methylbenzoyl)amino]he xyl]-5-methylbenzamide	Cc1ccc(O)c(c1)C(=O)N CCCCCCNC(=O)c2cc(C )ccc2O	88.7	ChEMBL	antibacterial activity	H <sub>3</sub> C OH	43
LCM (N,N'-butane-1,4- diylbis(2,3 dihydroxybenzamide)	O=C(c1cccc(c1O)O)NC CCCNC(=O)c1cccc(c1O) )O	88.6	SwissSimilar ity - Ligands from the PDB	siderophore		44 and PDB:5A1J
N,N'-1,5- Pentanediylbis(2,3- dihydroxybenzamide)	Oc1cccc(C(=O)NCCCCCN C(=O)c2cccc(O)c2O)c1O	86.0	ChEMBL	antimetastati c agents	HO NH OH OH	54
N-[3-[(2,3- Dihydroxybenzoyl)amin o]propyl]-2,3- dihydroxybenzamide	Oc1cccc(C(=O)NCCCNC(= O)c2cccc(O)c2O)c1O	80.9	ChEMBL	HIV-1 integrase inhibitors		52

Table S1: Comparison of mygalin to similar drugs.





**Figure S1.** Superposition of MD-2-C and MD-2-D. Residues of the hydrophobic binding pocket involved in the interaction (Table 4) with the ligands are shown. Most of residues showed similar conformations or small differences, although W23, S47 and I153 showed high conformational differences. Only the side chains are shown for clarity.