1.b

Fármaco 1:Daunorubicin

SMILE:C[C@H]1[C@H]([C@H](C[C@@H](O1)O[C@H]2C[C@@](CC3=C2C(=C4C(=C3O) C(=O)C5=C(C4=O)C(=CC=C5)OC)O)(C(=O)C)O)N)O

Fármaco 2:Camptothecin

SMILE:CC[C@@]1(C2=C(COC1=O)C(=O)N3CC4=CC5=CC=CC=C5N=C4C3=C2)O

Fármaco 3:Streptozocin

SMILE:CN(C(=O)N[C@@H]1[C@H]([C@@H]([C@H](O[C@@H]1O)CO)O)O)N=O

Fármaco 4:Salinosporamide A (Experimental)

SMILE: C[C@] 12[C@H](C(=O)N[C@] 1(C(=O)O2)[C@H]([C@H]3CCCC=C3)O)CCCI

Fármaco 5:Crisnatol (Experimental)

SMILE:CC(CO)(CO)NCC1=CC2=C(C=CC3=CC=CC=C32)C4=CC=CC=C41

1.a/2	Aspirin	Paracetamol	Caffeine	
SMILE	CC(=O)OC1=CC=CC=C1C(=O)O	CC(=O)NC1=CC=C(C=C1)O	CN1C=NC2=C1C(=O)N(C(=O)N2C)C	
Peso molecular	180.16 g/mol	151.16 g/mol	194.19 g/mol	
LogP	1.28	0.93	0.08	
H-bond A.	4	2	3	
H-bond D.	1	2	0	
TPSA	63.60 Ų	49.33 Ų	61.82 Ų	
Rotatable bonds	3	2	0	

3.

Nº	Nombre	Lipinski Violations	
0	Aspirin	0	
1	Paracetamol	0	
2	Caffeine	0	
3	Daunorubicin	2	
4	Camptothecin	0	
5	Streptozocin	0	

6	Salinosporamide A	0
7	Crisnatol	0

4.

	LD50	Toxicity Class	Hepatotoxicit y	Carcinogenic ity	Mutagenicity
Aspirin	250mg/k g	3	0.51	0.86	0.97
Paracetamol	338mg/k g	4	0.74A	0.51	0.90
Caffeine	127mg/k g	3	0.97	0.93	0.94
Daunorubicin	205mg/k g	3	0.89	0.75	0.99A
Camptothecin	50mg/kg	3	0.83	0.57	0.59
Streptozocin	396mg/k g	4	0.59	0.93A	0.90A
Salinosporamide A	2573mg/ kg	5	0.70	0.60	0.59
Crisnatol	1000mg/ kg	4	0.84	0.75	0.60