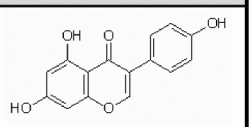
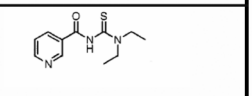
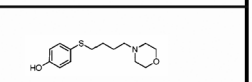
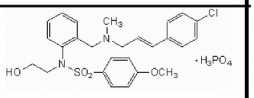
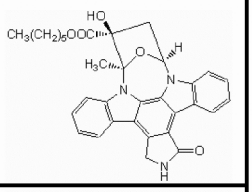
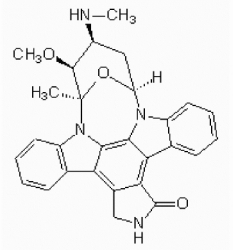
Table S4. Small molecule compounds assayed for which phenotypes are not shown

Biochemical Compounds assayed	Commercial supplier	Structure
Genistein	Calbiochem	
5150905	Chembridge	
8160304	Chembridge	
KN-93	Calbiochem	
KT5720	Calbiochem	
staurosporine	Calbiochem	

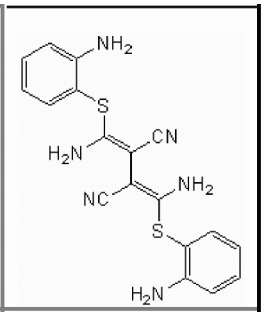
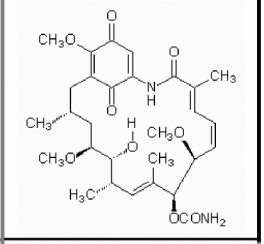
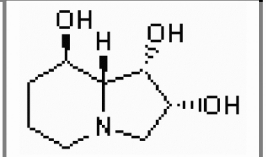
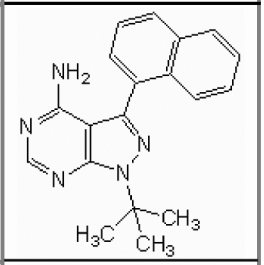
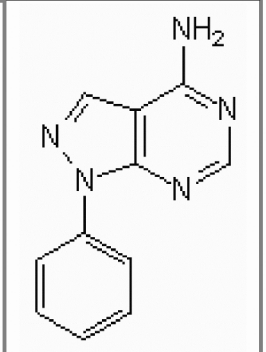
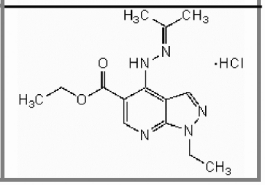
UO126	Calbiochem	
Geldanamycin	Calbiochem	
Swainsonine	Calbiochem	
PP1	Calbiochem	
PP3	Calbiochem	
Etazolate, hydrochloride	Calbiochem	

Table S5. Small molecule compound 31B4 assayed at the 8–16 cell stage showing phenotypic response to compound concentration

Compound Concentration	Frog	Phenotypic score				
		1	2	3	4	5
2μg/ml	A	58	42			
	B	79	21			
	E	52	48			
	F	83	17			
200ng/ml	A	11	28	61		
	B			9	76	15
	E		47	53		
	F		10	90		
2ng/ml	A				21	79
	B				13	87
	E			46	54	
	F			16	84	
200pg/ml	A				12	88
	B				5	95
	E				20	80
	F				7	93
Negative Control	A				5	95
	B				5	95
	E				4	96
	F				6	94

Table S6. Small molecule compound 31B4 assayed at stage 15 showing phenotypic response to compound concentration

Compound Concentration	Frog	Phenotypic score				
		1	2	3	4	5
2μg/ml	C	83	17			
	D	86	14			
	E	53	47			
	F	83	17			
200ng/ml	C		19	81		
	D		30	70		
	E		50	50		
	F		22	78		
2ng/ml	C			31	69	
	D			31	69	
	E			30	70	
	F			58	42	
200pg/ml	C				15	85
	D				22	78
	E				12	88
	F				24	76
Negative Control	C				10	90
	D				12	88
	E				5	95
	F				18	82