

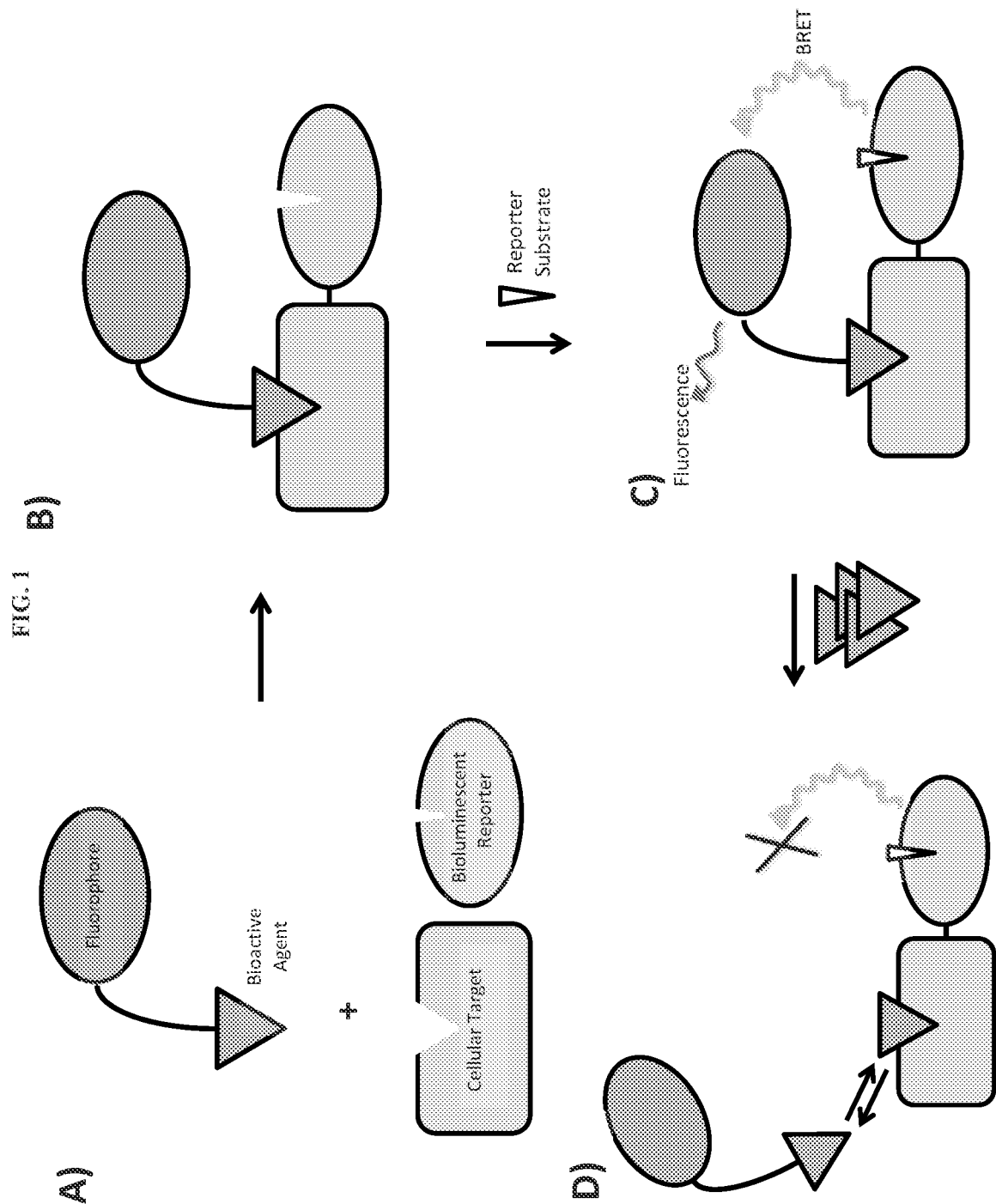


FIG. 2

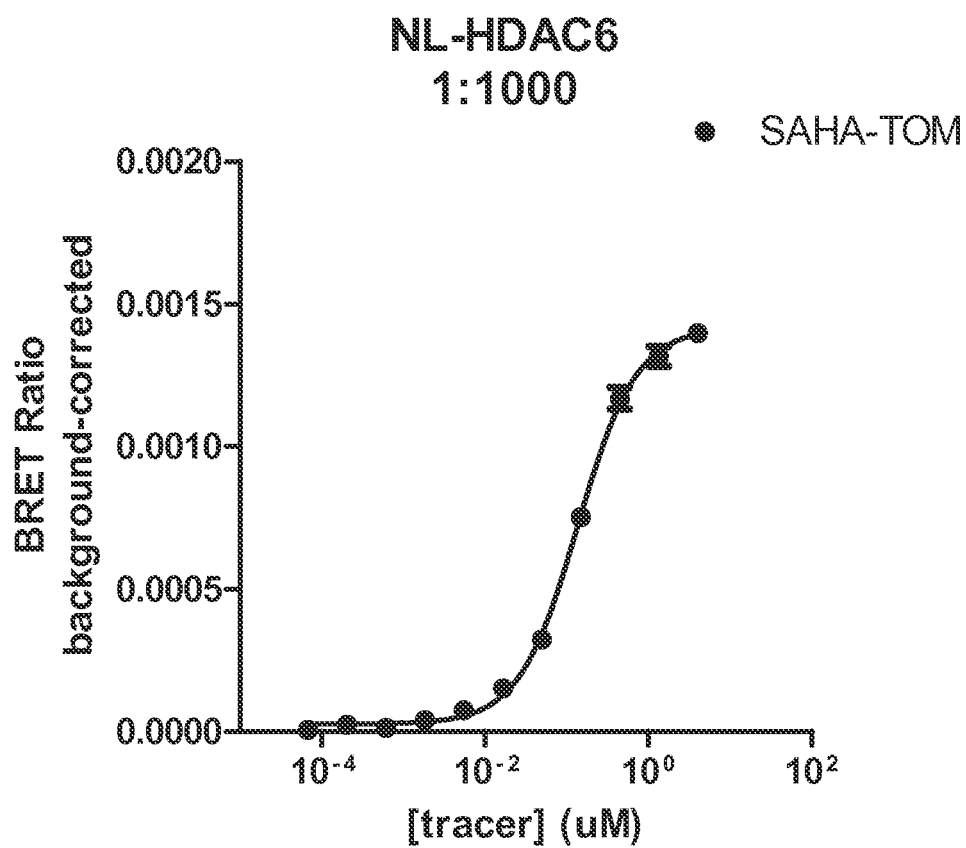
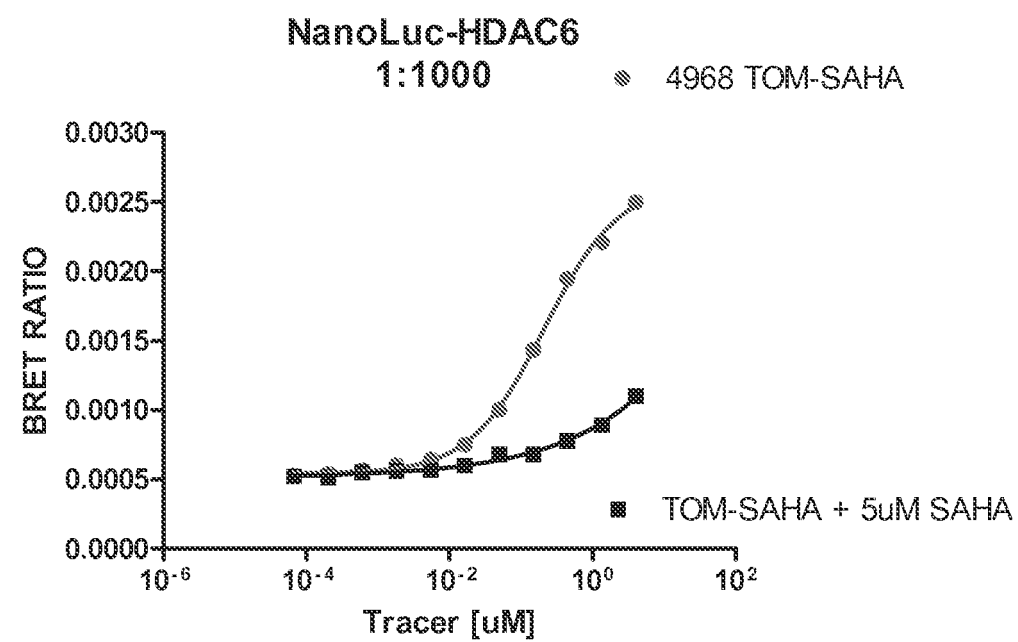


FIG. 2 (cont.)

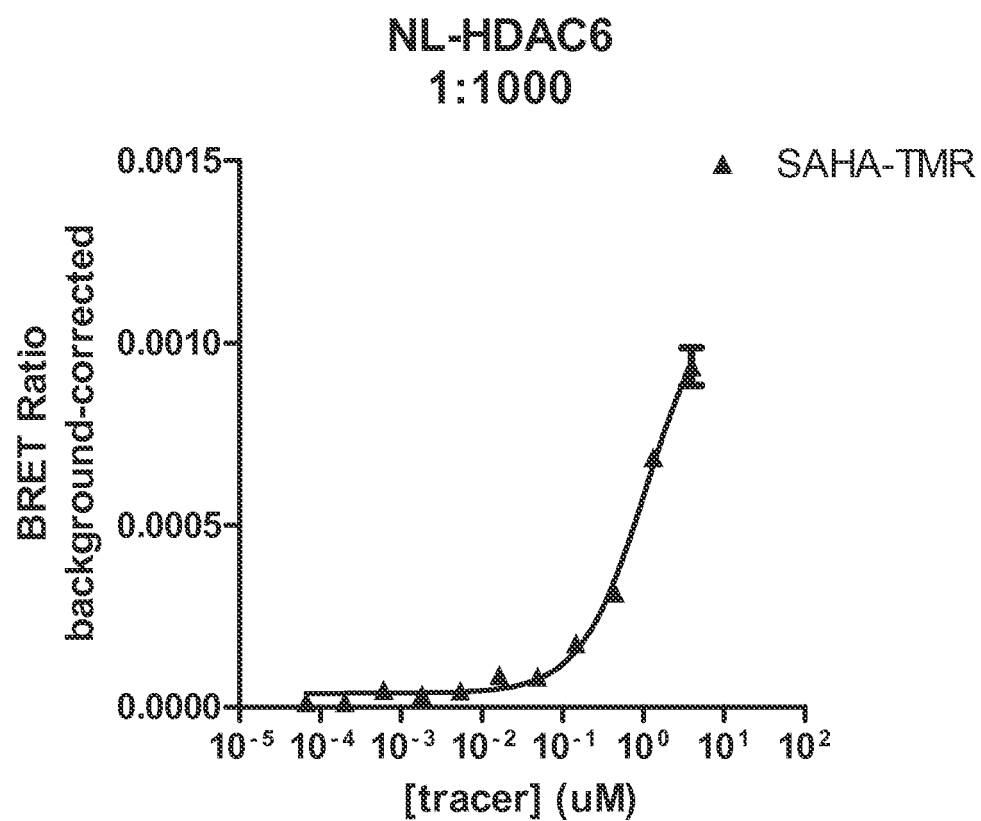
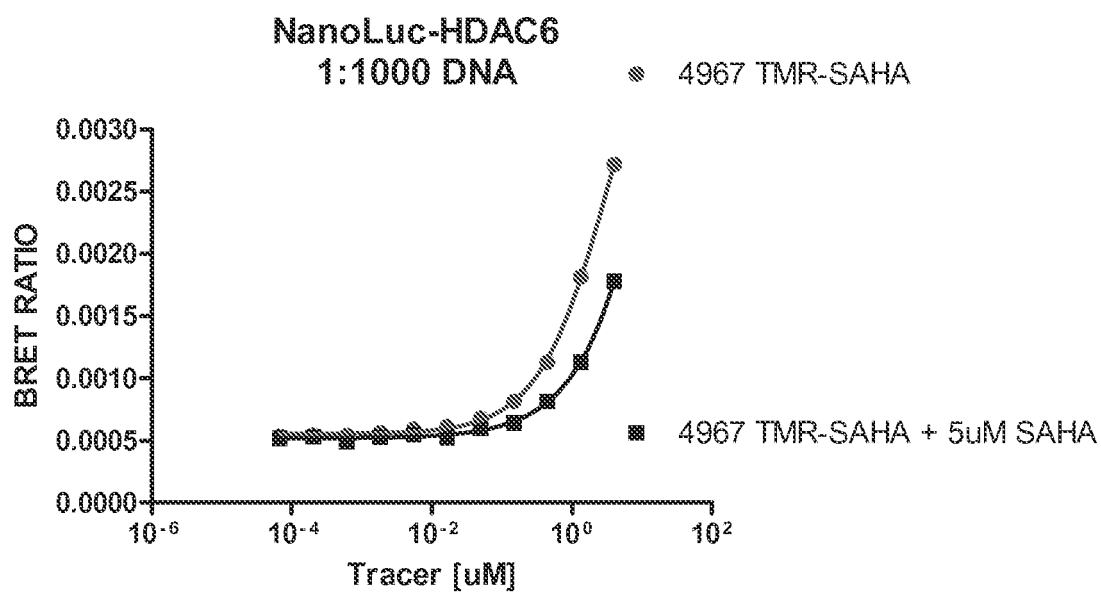
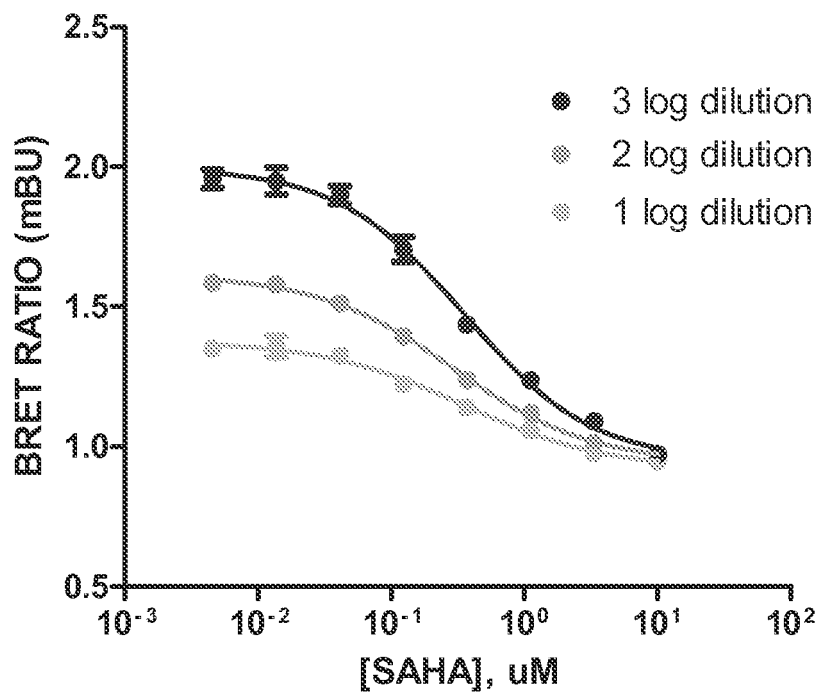


FIG. 3

A)

**Various Dilutions of NLuc-HDAC6
Competitive Displacement of SAHA Tracer**



B) NanoLuc-Histamine H1 Optimization of Expression/Tracer Levels

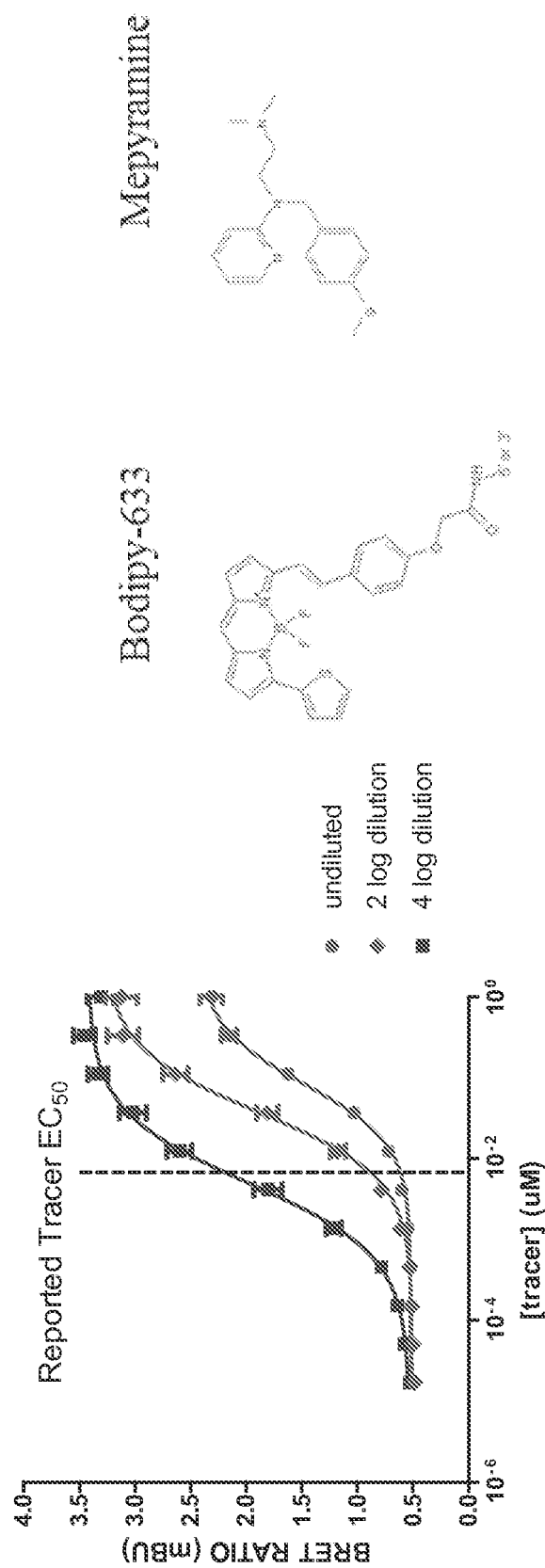


FIG. 3 (cont.)

FIG. 4

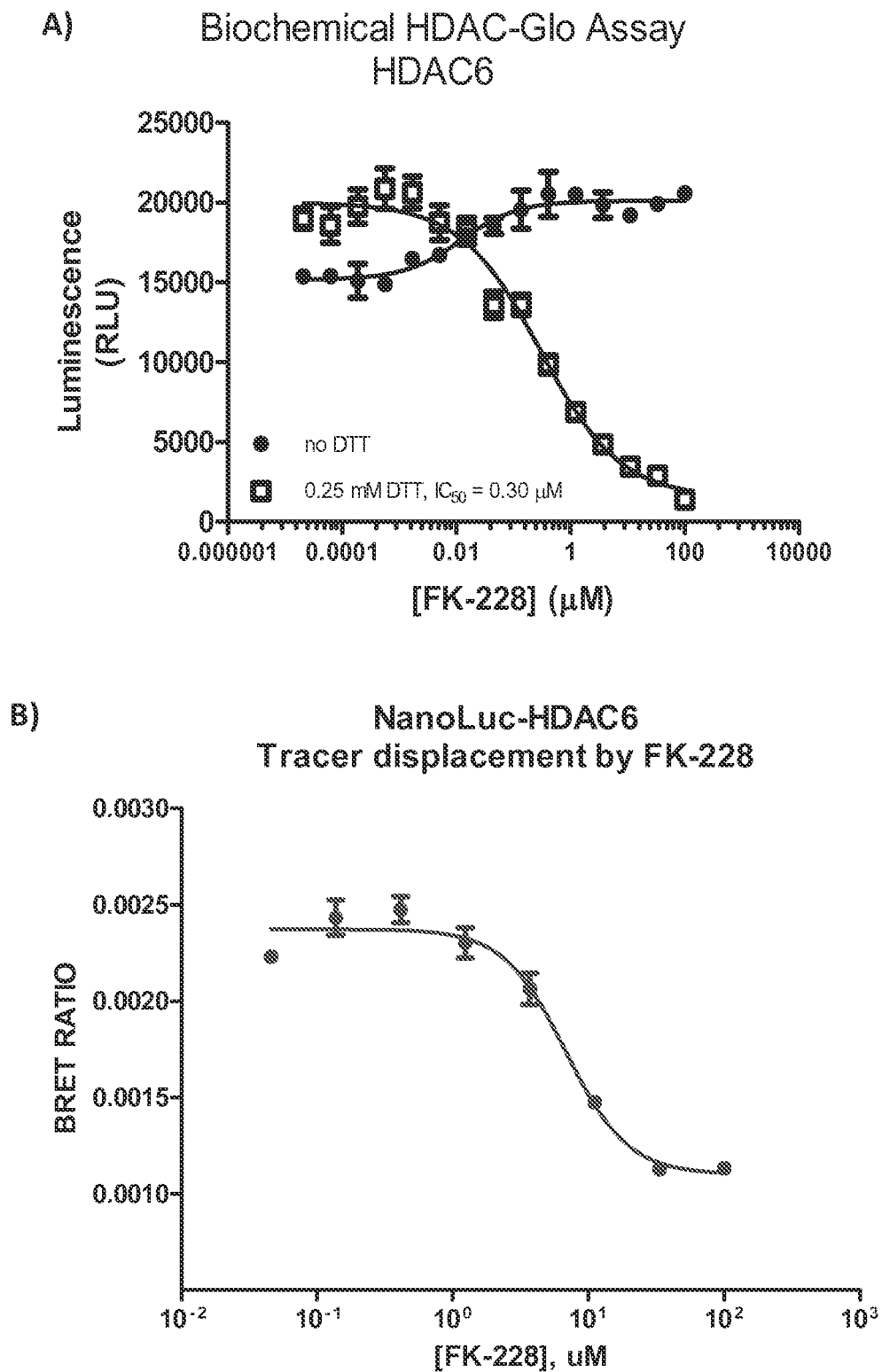


FIG. 5

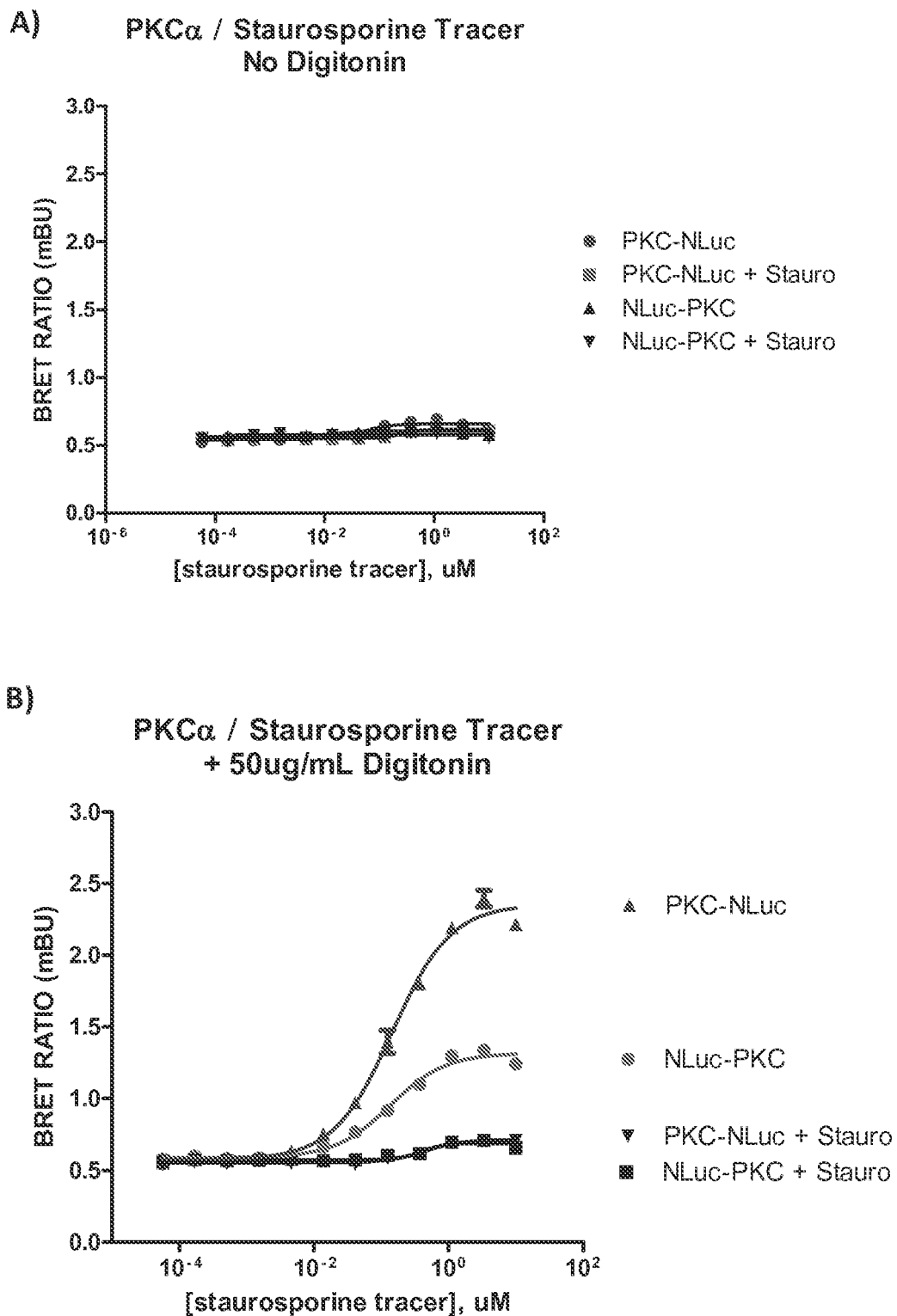


FIG. 5 (cont.)

c)

PKC α -NanoLuc
BRET with 5uM Staurosporine Tracer
Effect of Digitonin

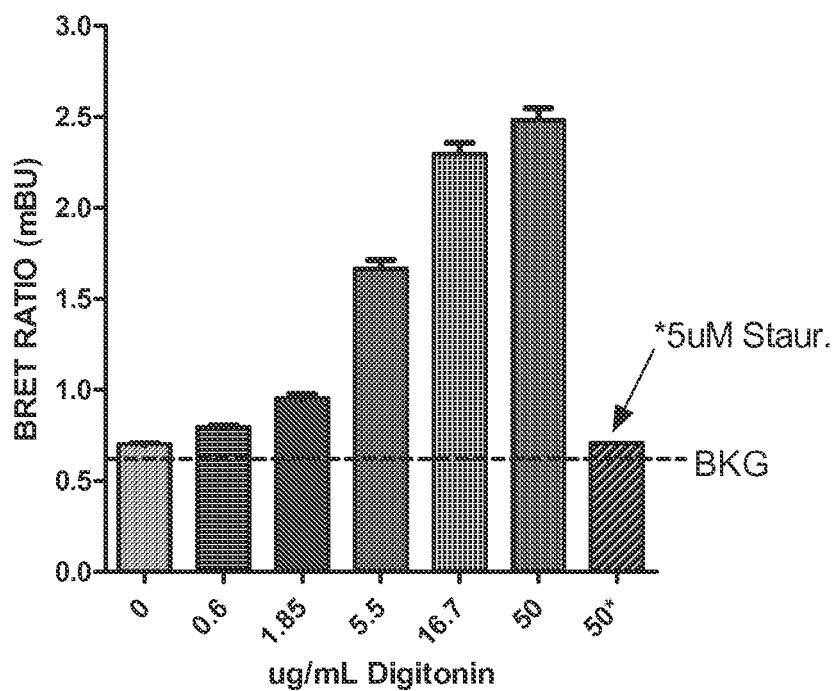


FIG. 6

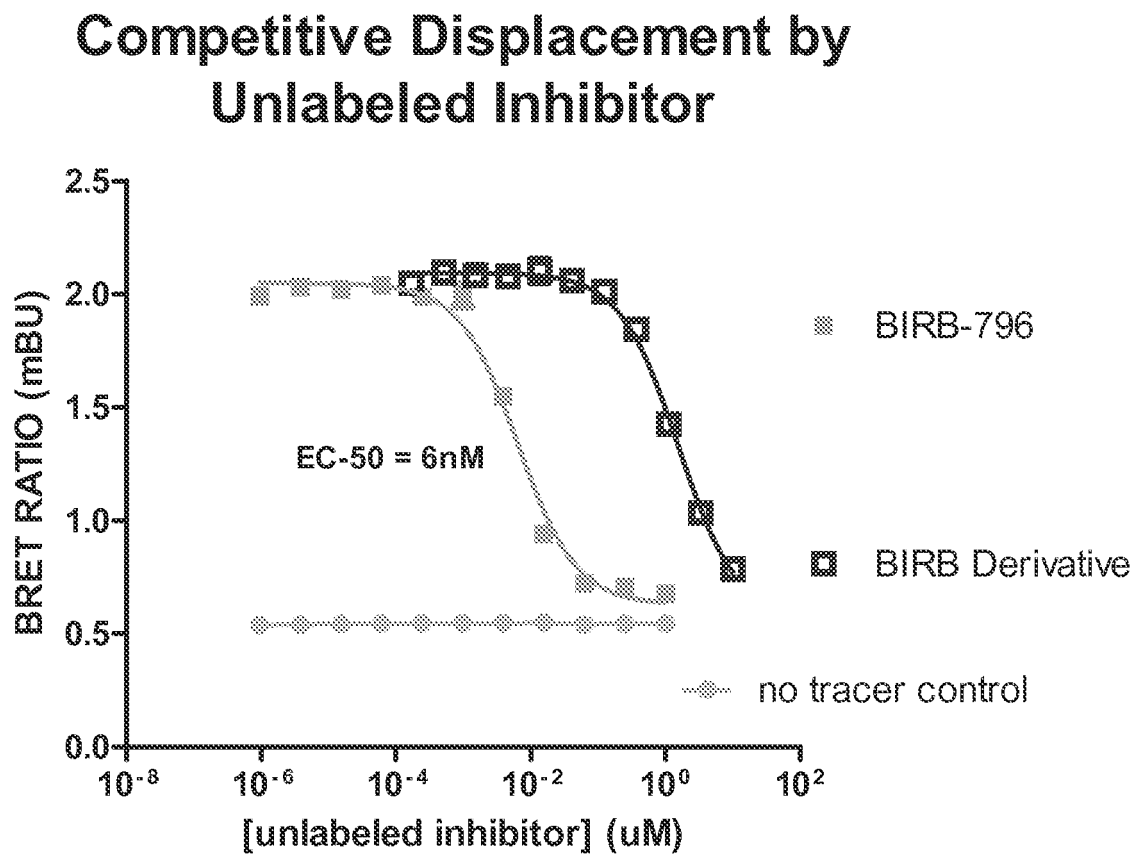


FIG. 7

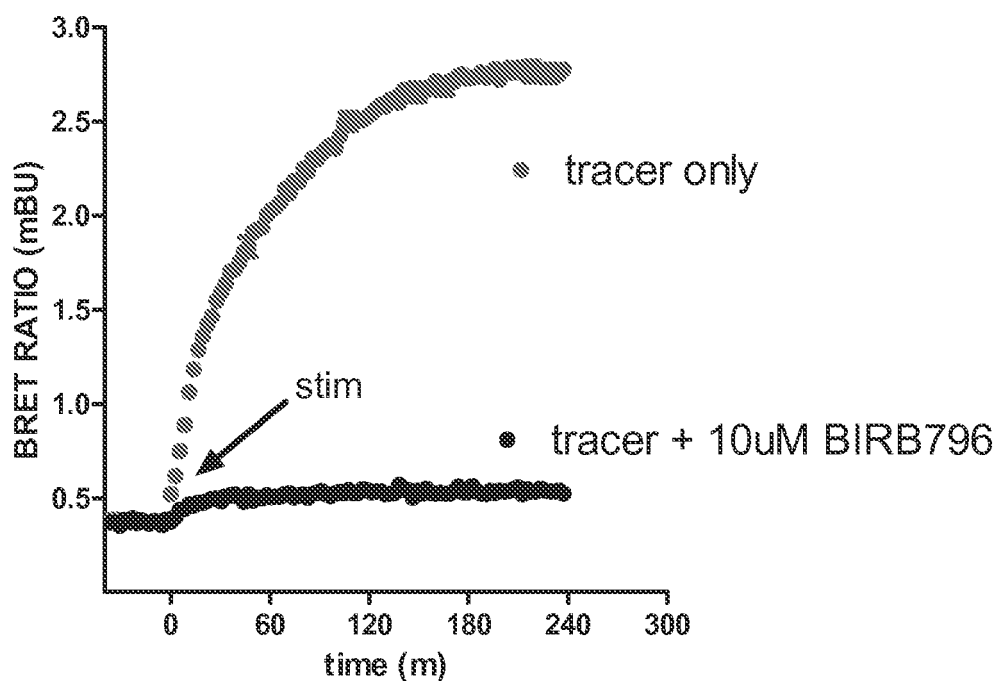
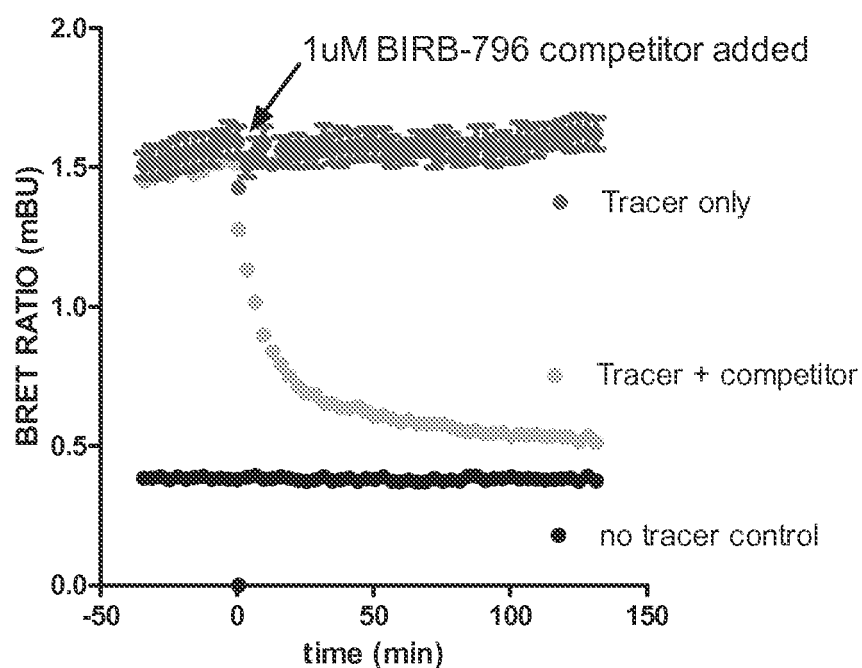
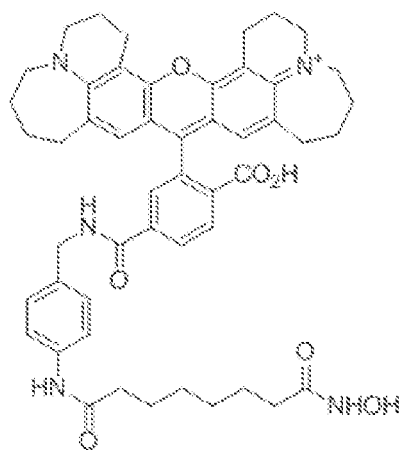
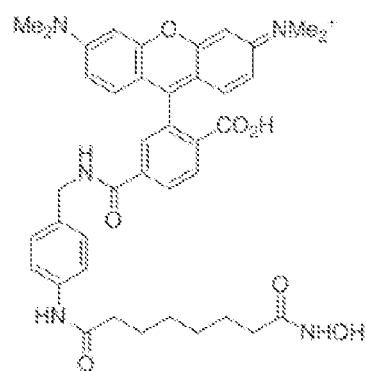
A) Kinetics of p38 Tracer Binding**B) Kinetics of p38 Tracer Displacement**

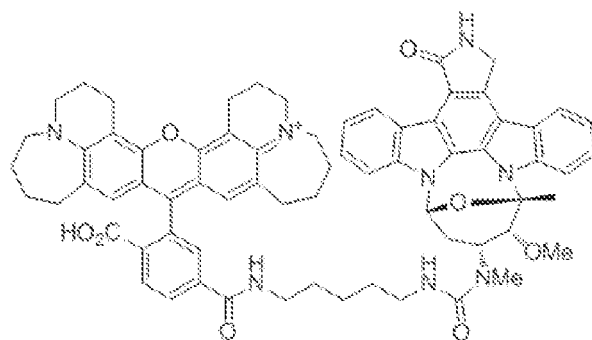
FIG. 8



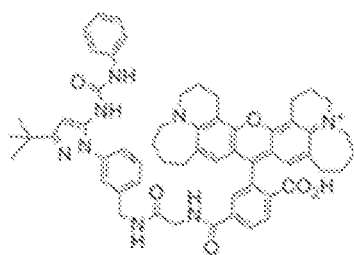
SAHA-TOM (4968)



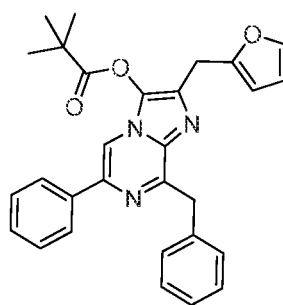
SAHA-TAMRA (4967)



Staurosporine-TOM (5129)

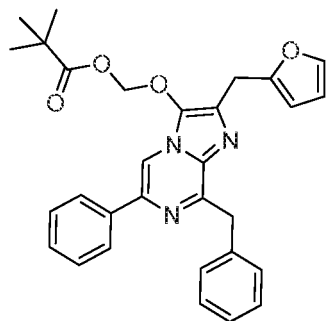


BIRB-TOM (4838)

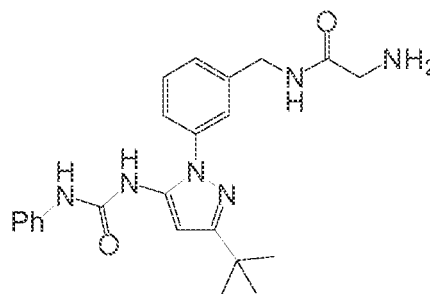


PBI 4378

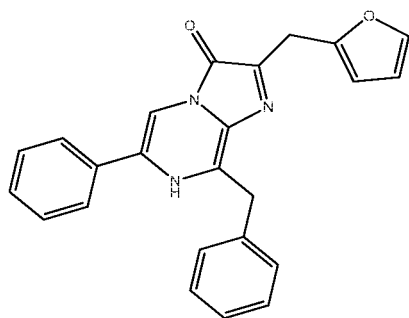
FIG. 8 (cont.)



PBI 4377



PBI 4835



PBI-3939 (furimazine)

FIG. 9

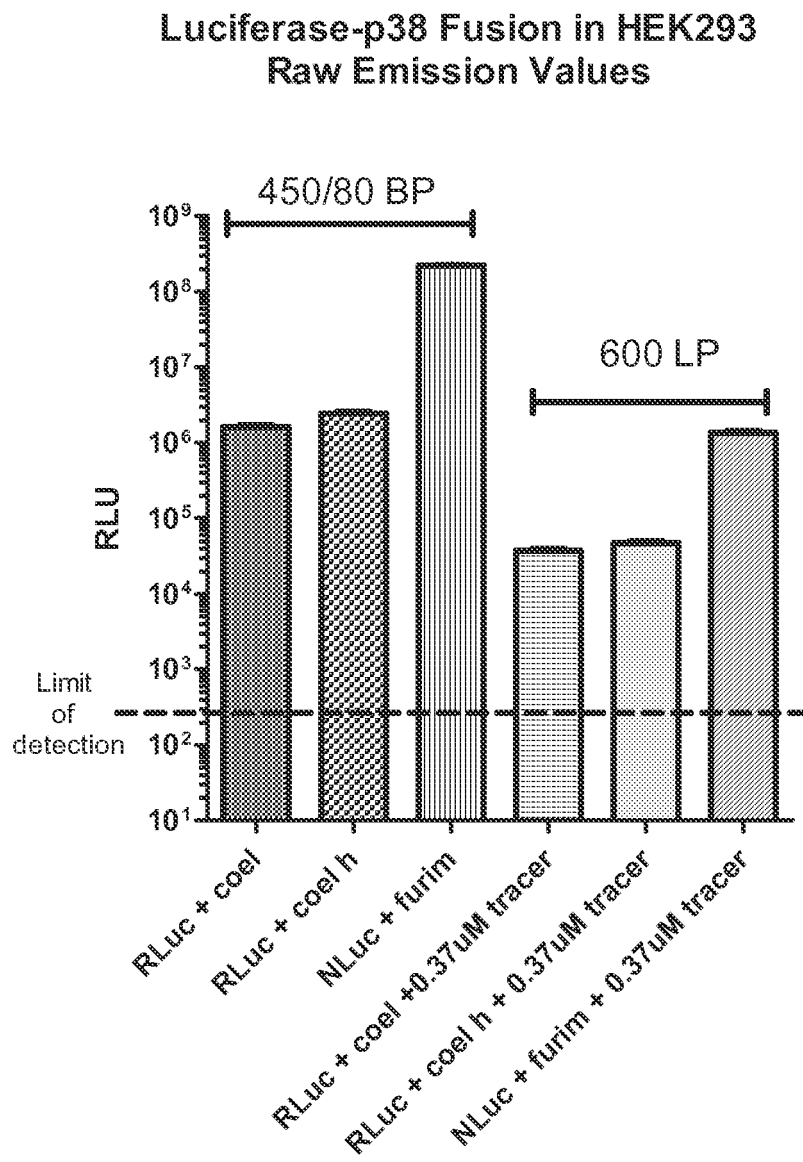


FIG. 9 (cont.)

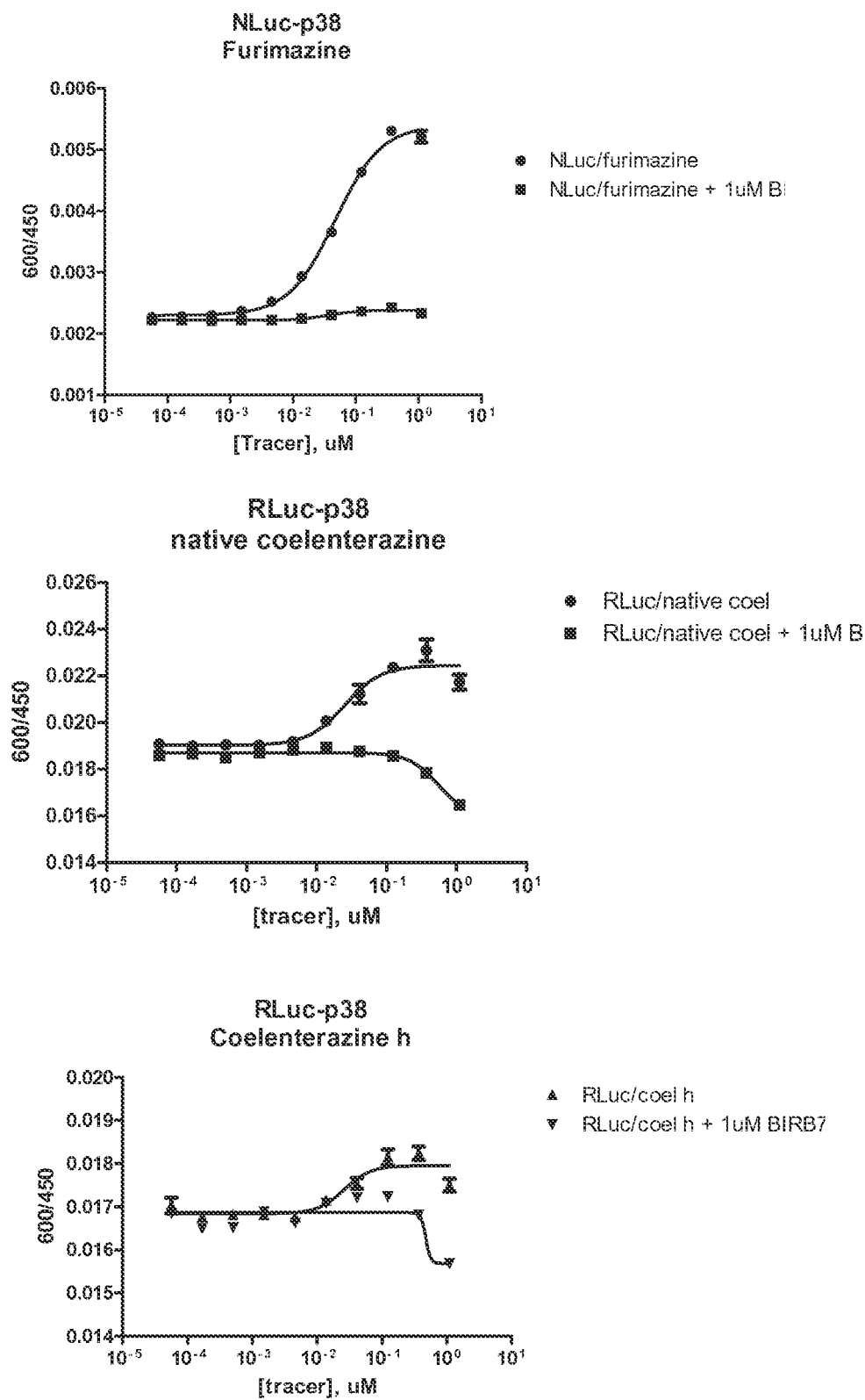


FIG. 10

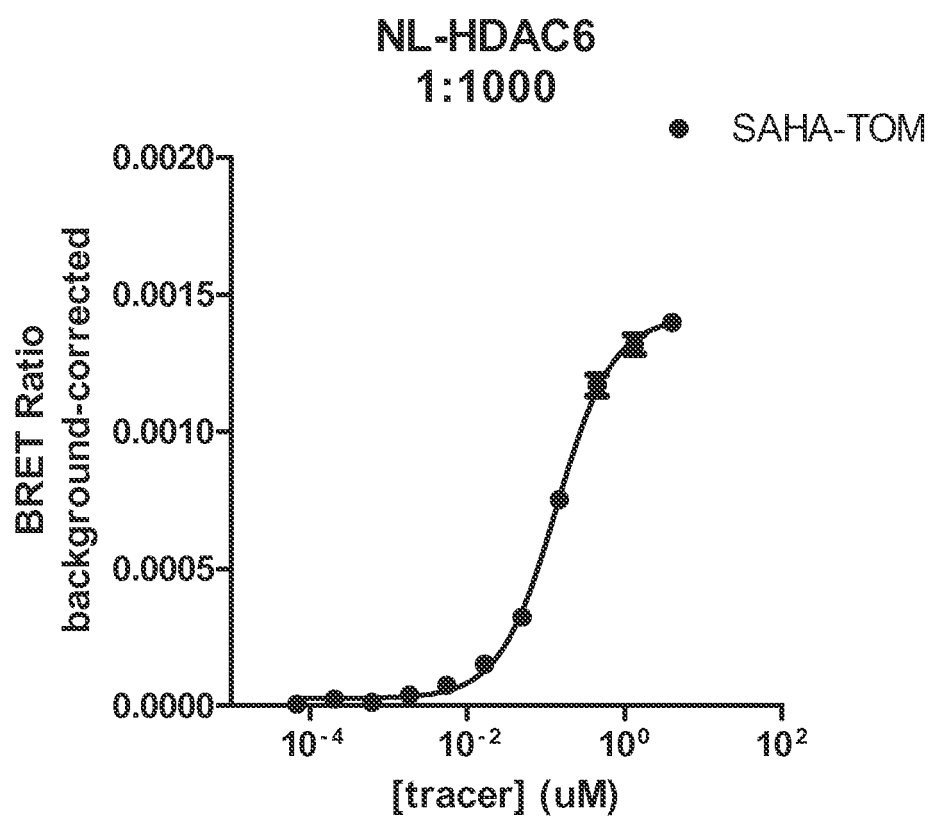
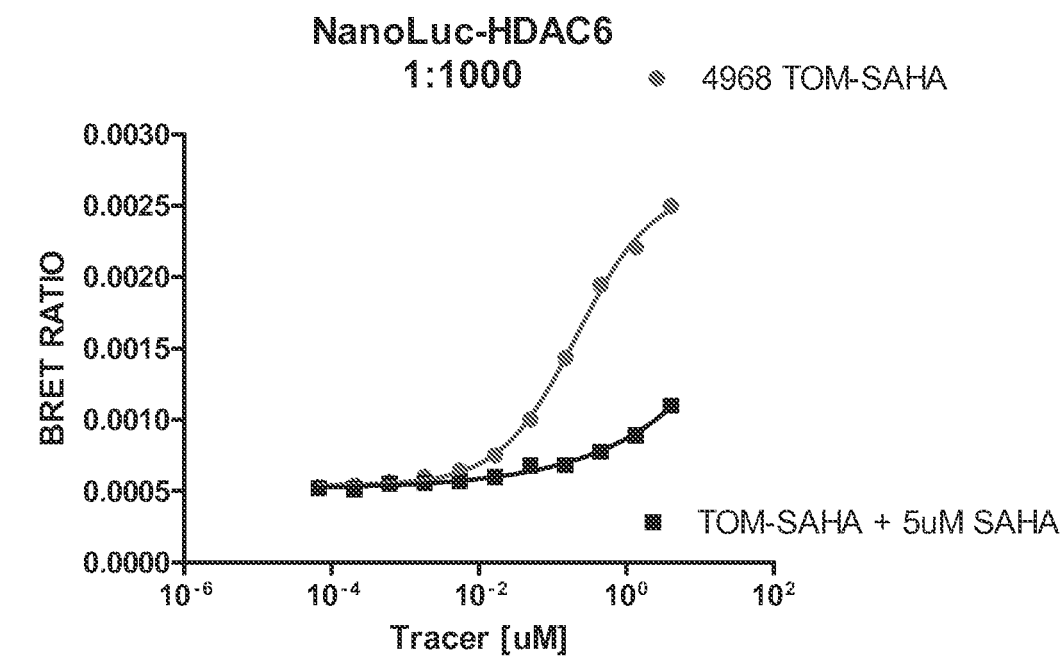


FIG. 10 (cont.)

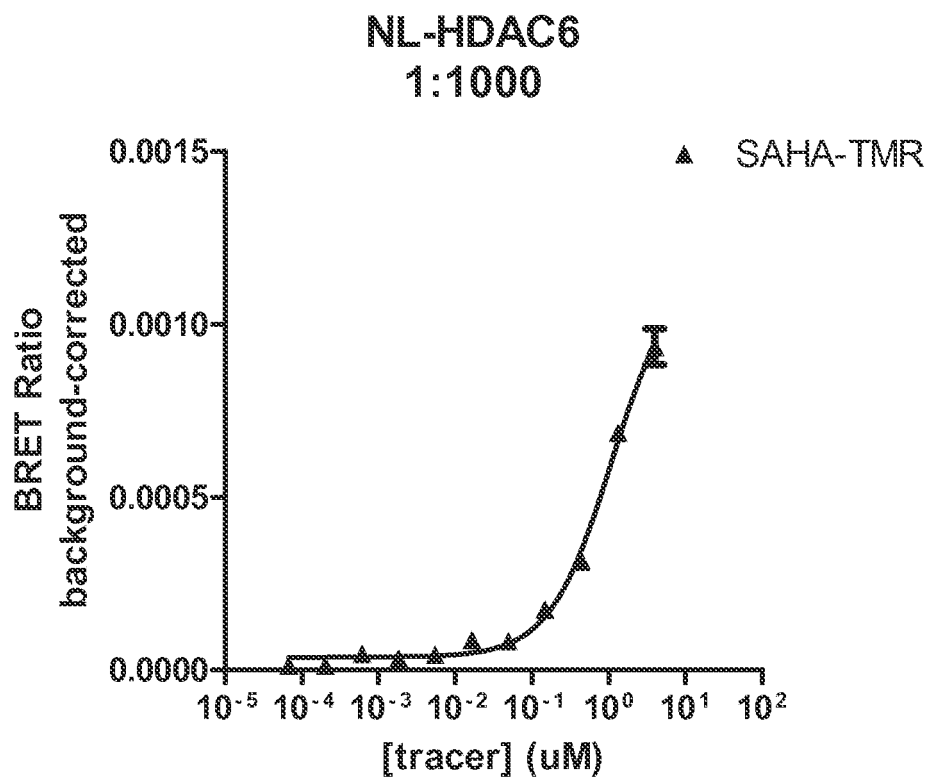
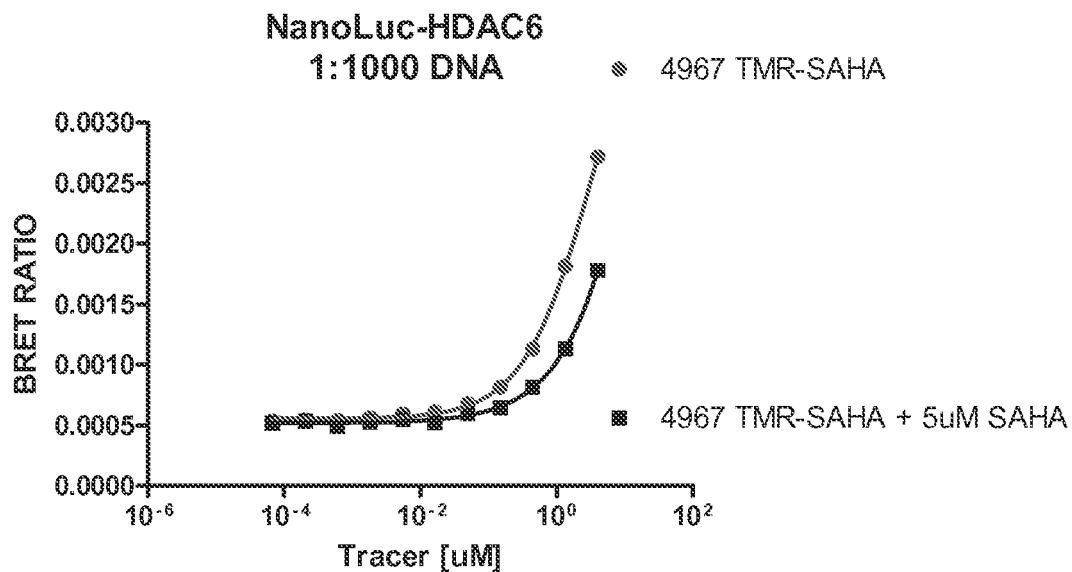


FIG. 11

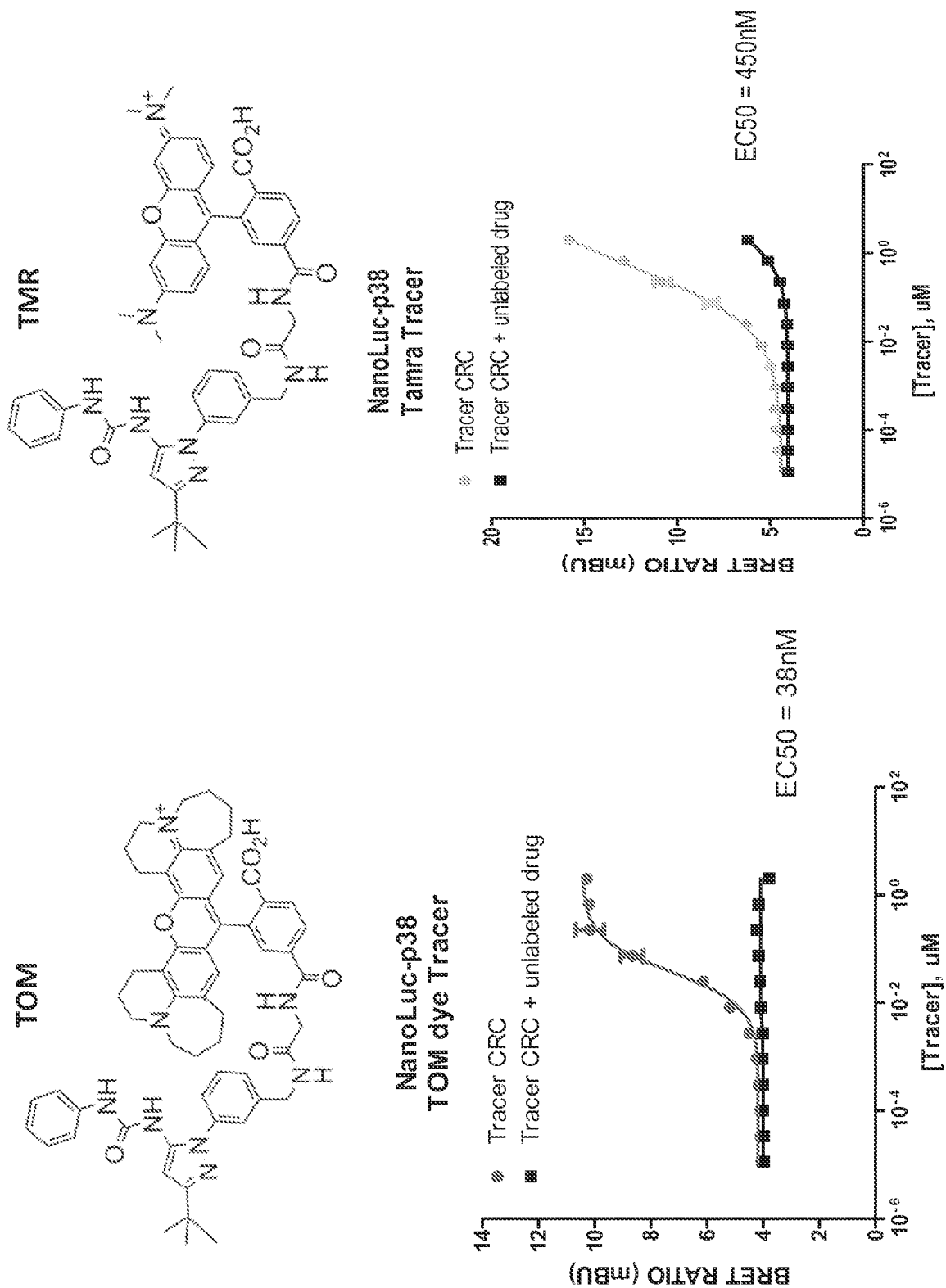


FIG. 12

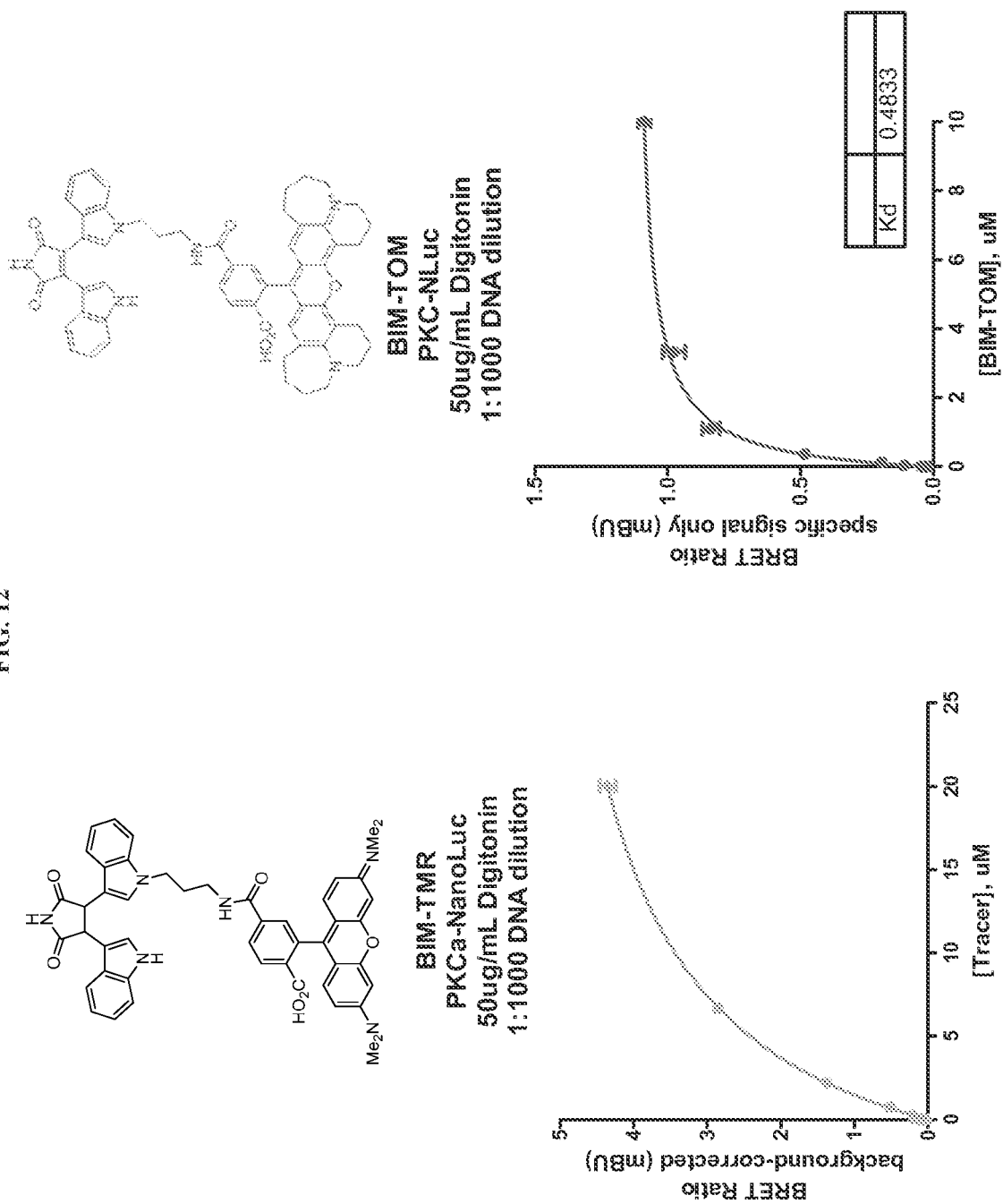


FIG. 13

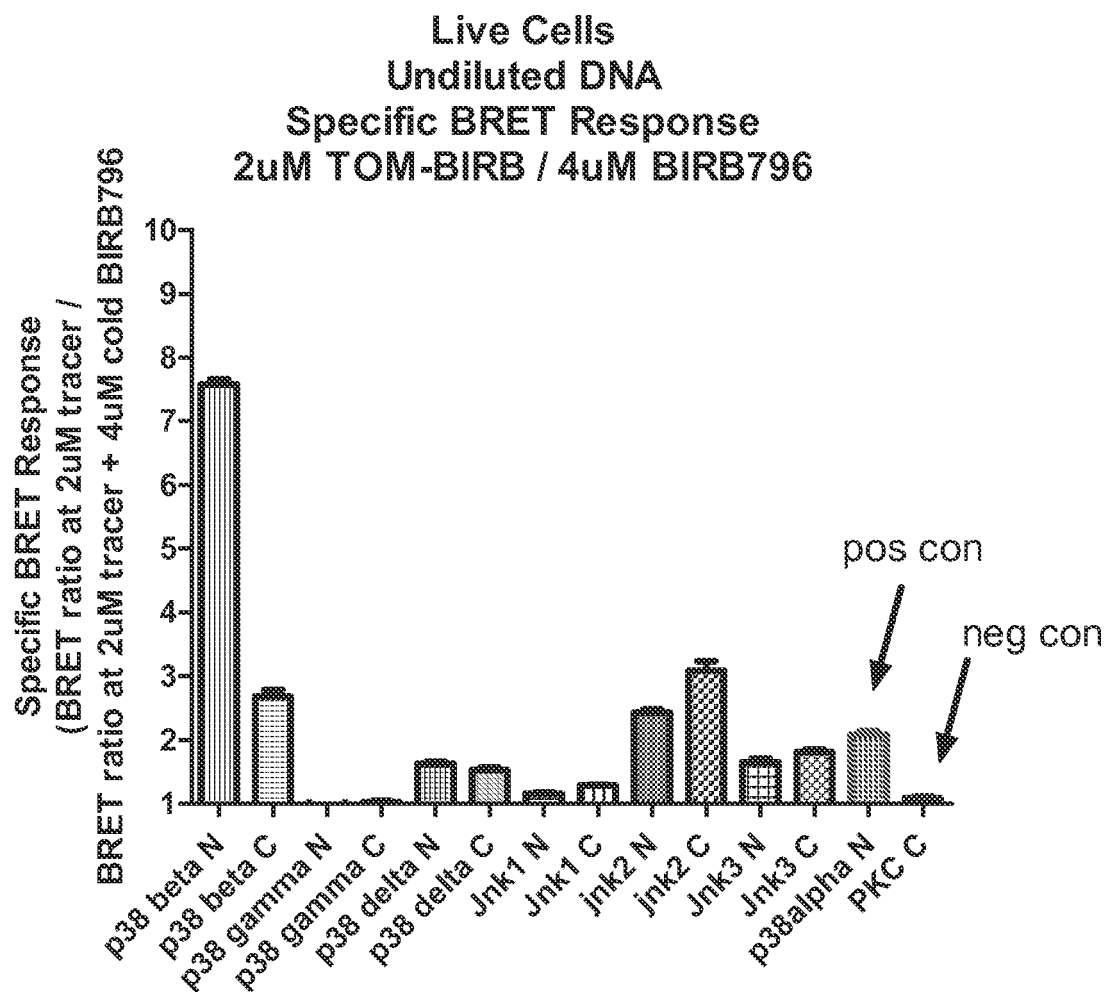


FIG. 14

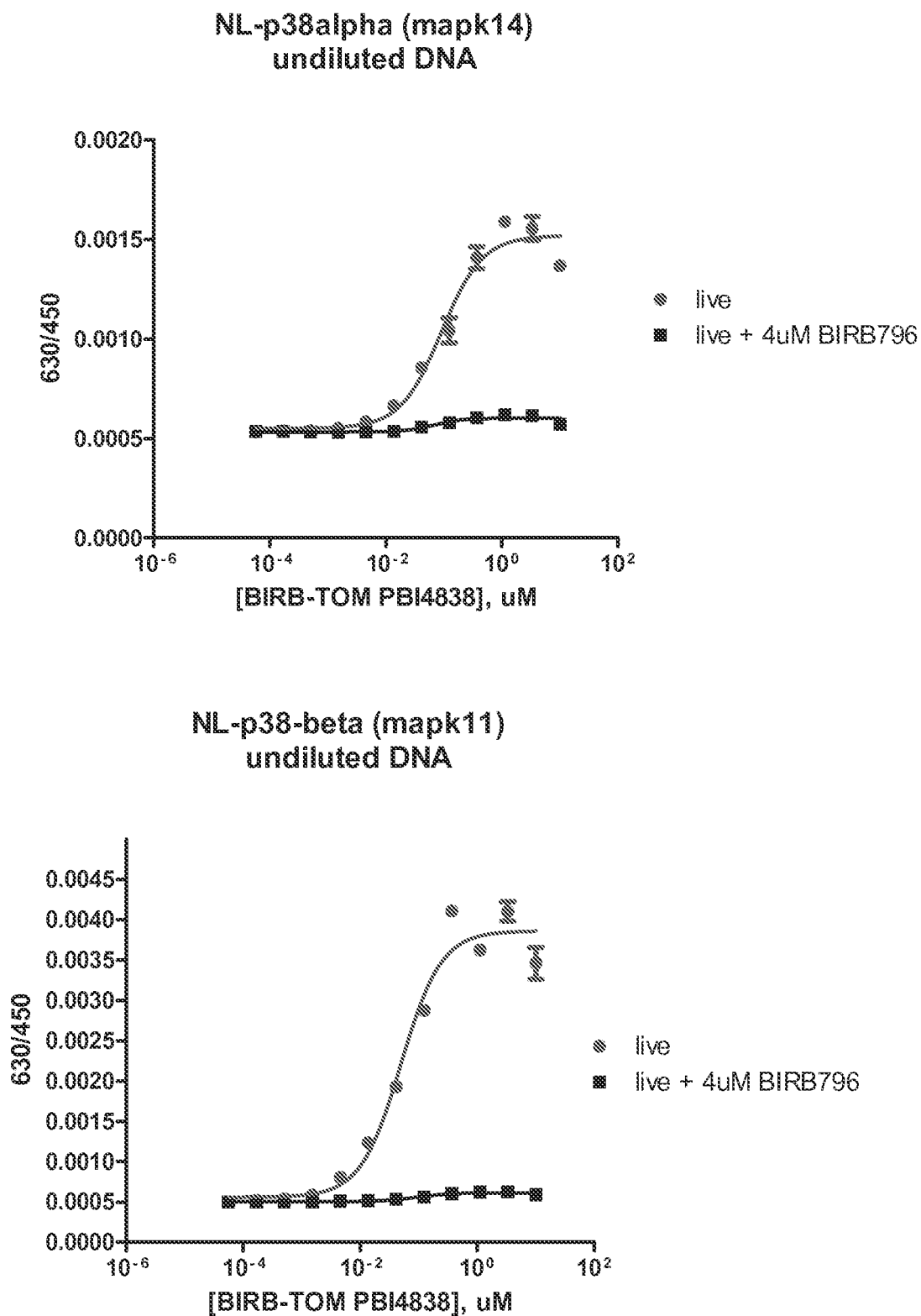


FIG. 14 (cont.)

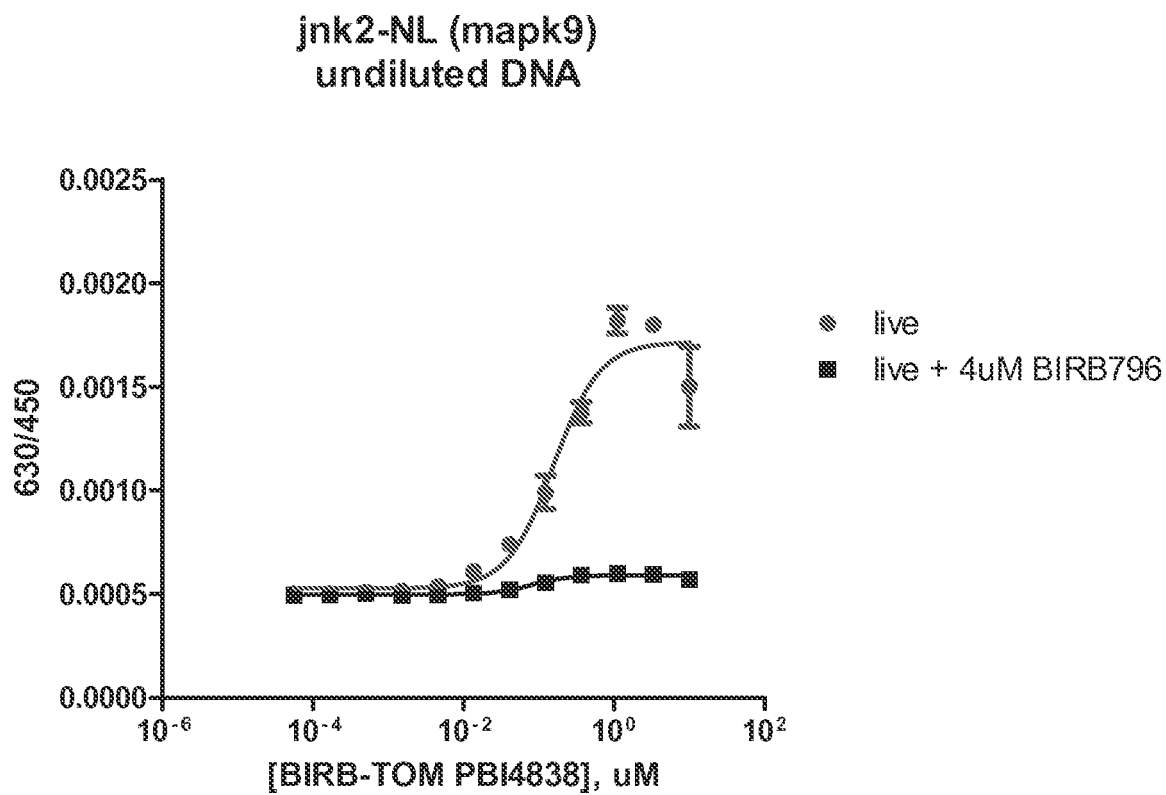


FIG. 14 (cont.)

-----Negative Controls-----

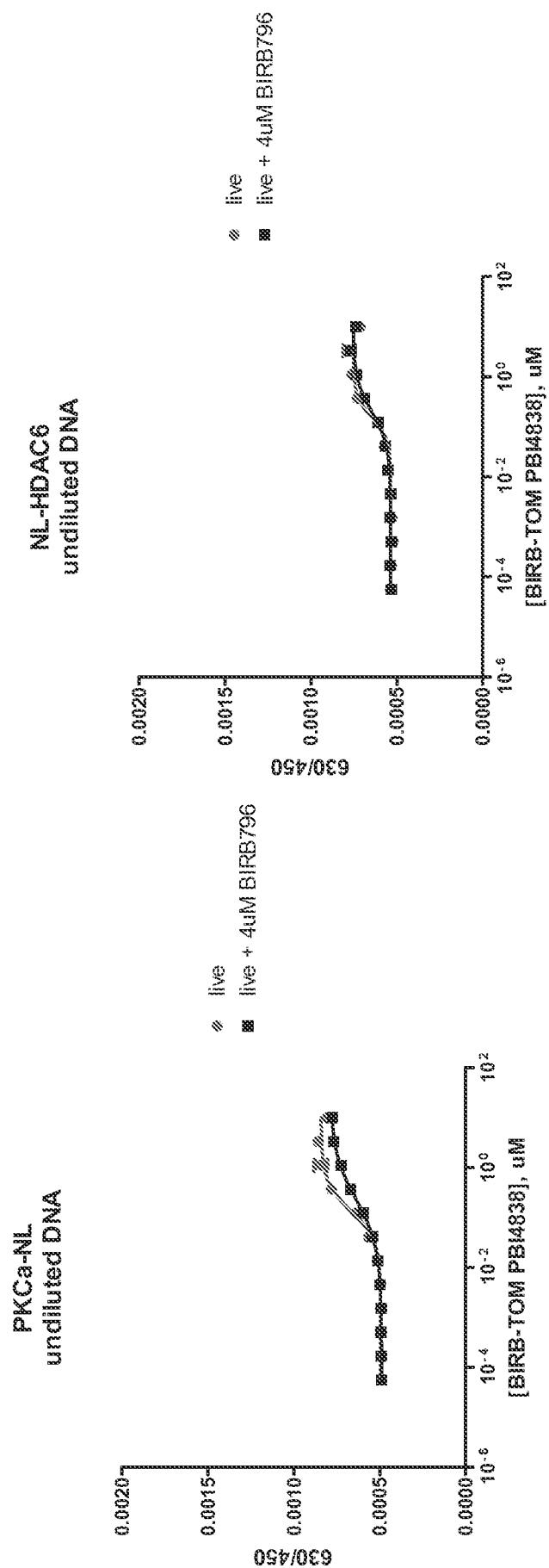


FIG. 15

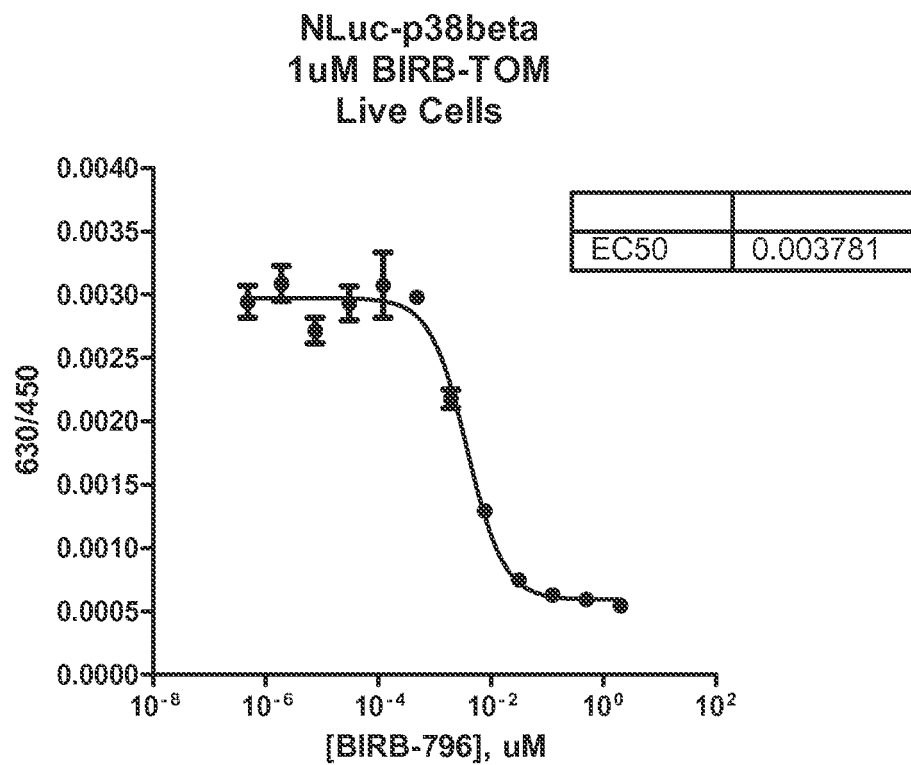
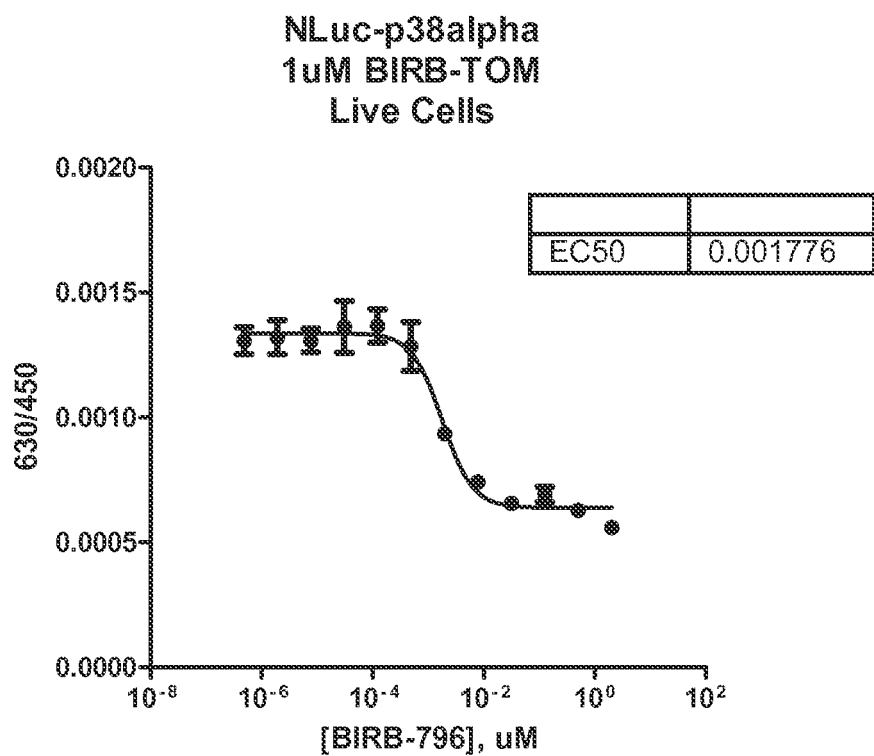


FIG. 15 (cont.)

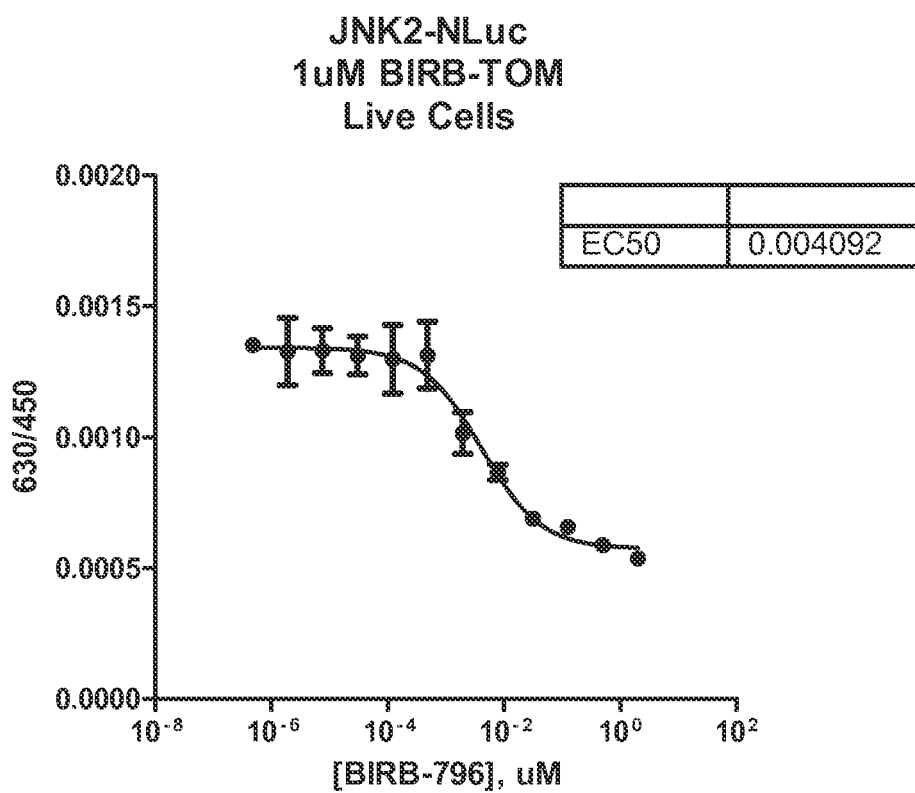


FIG. 15 (cont.)

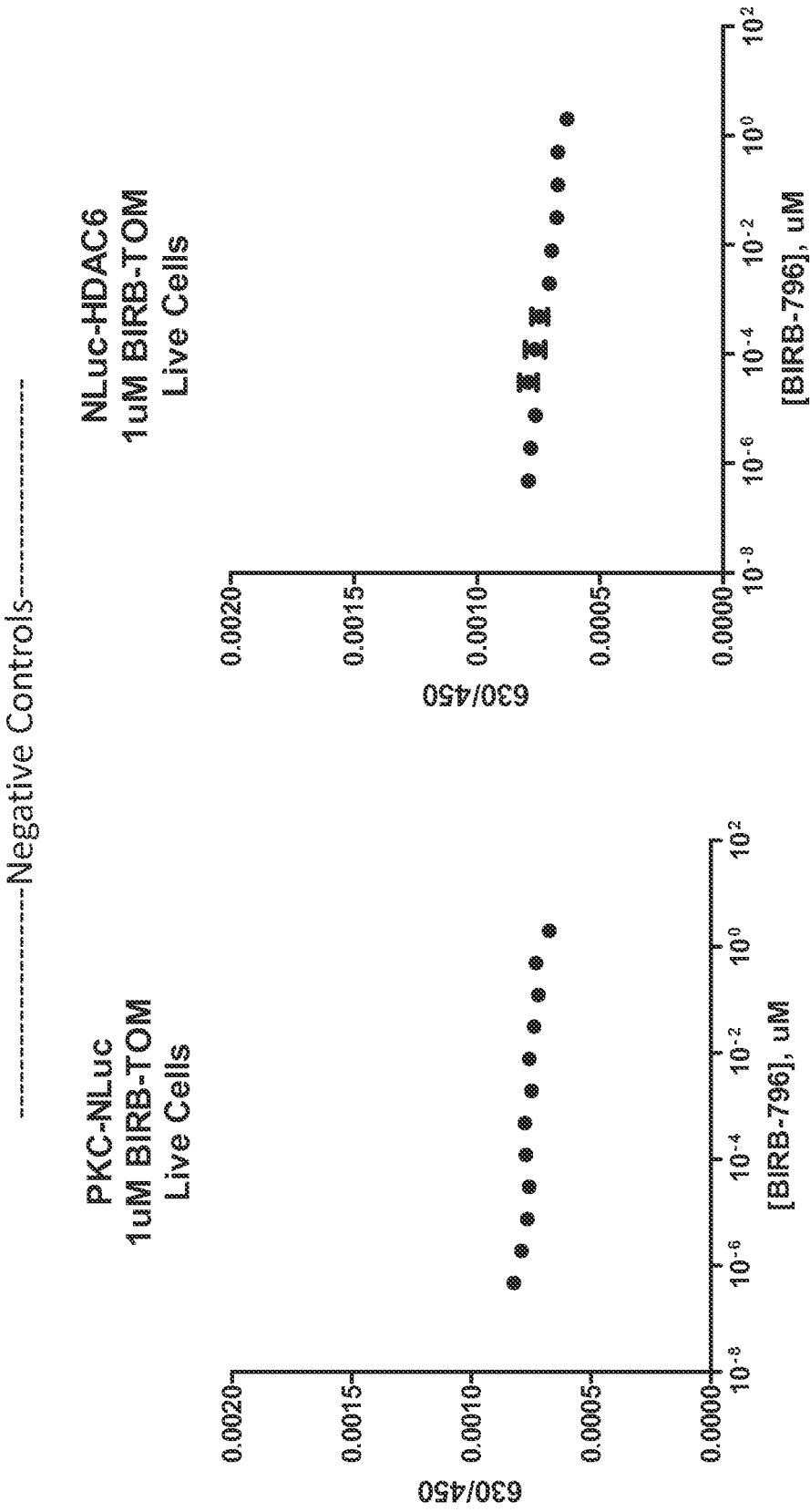
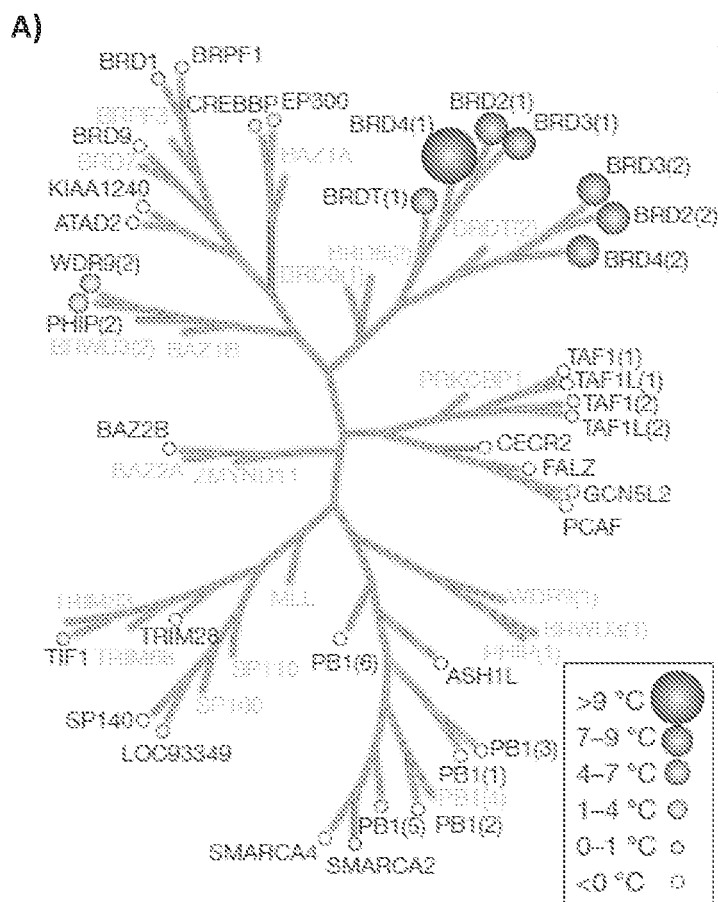


FIG. 16



B)

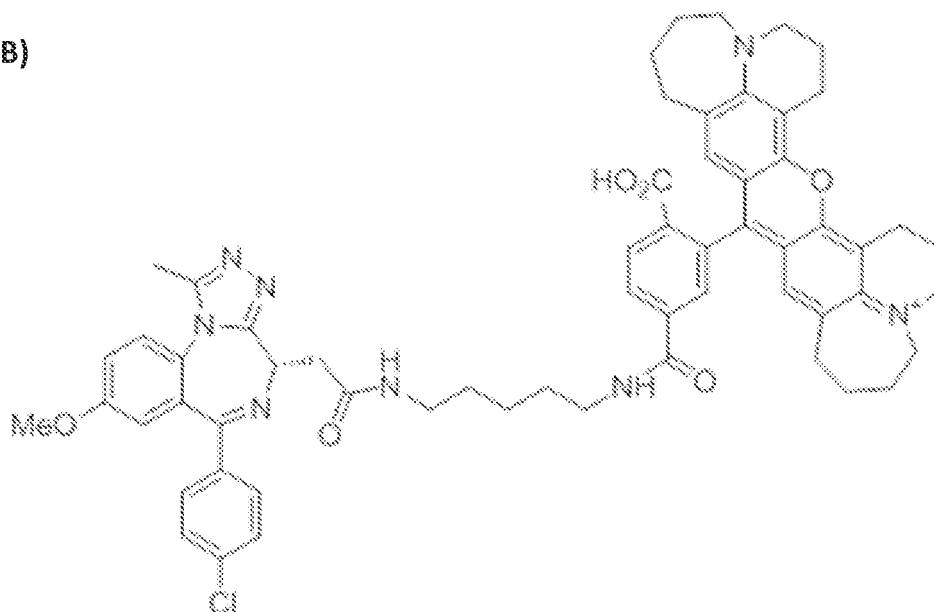


FIG. 16 (cont.)

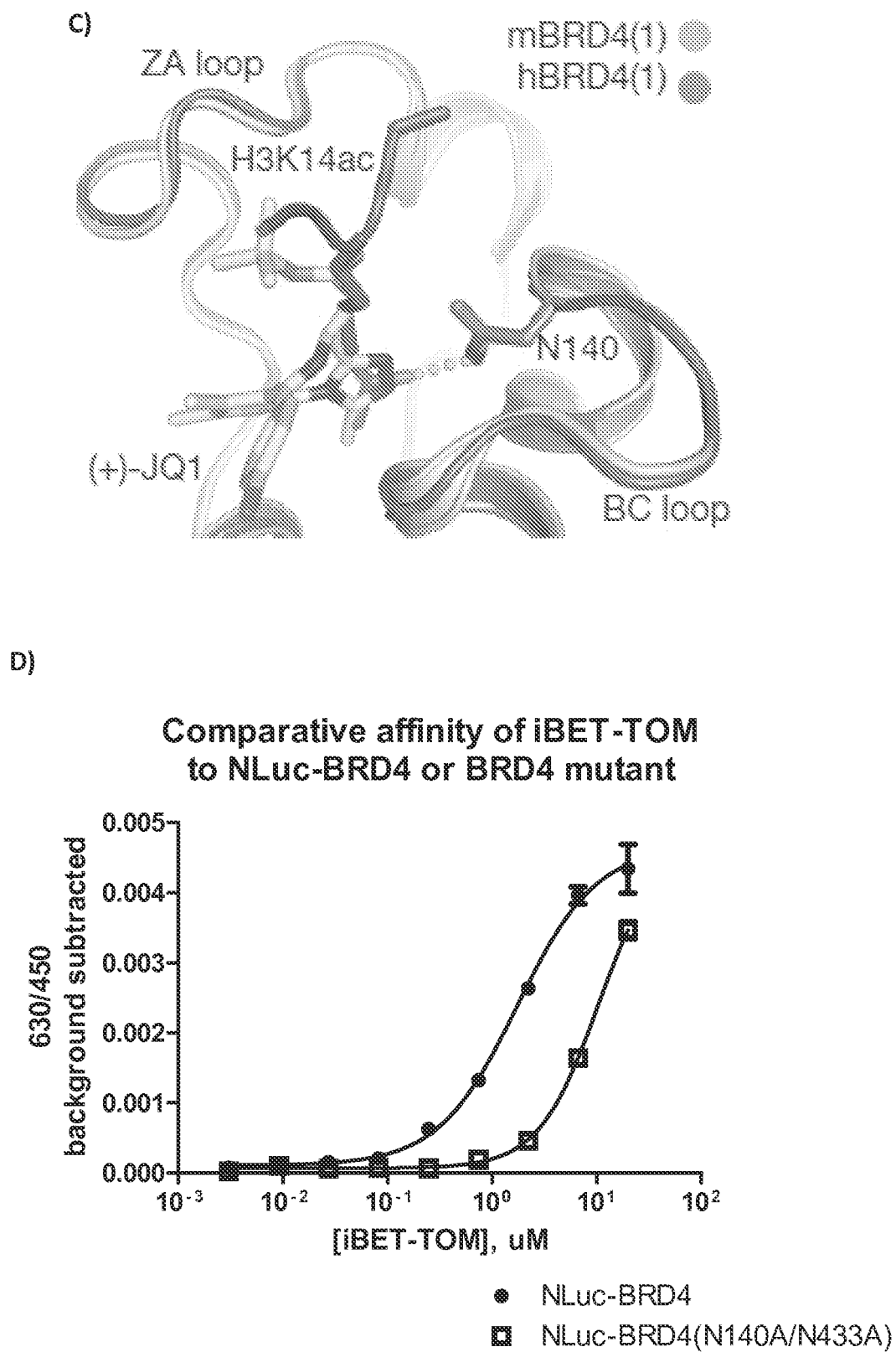
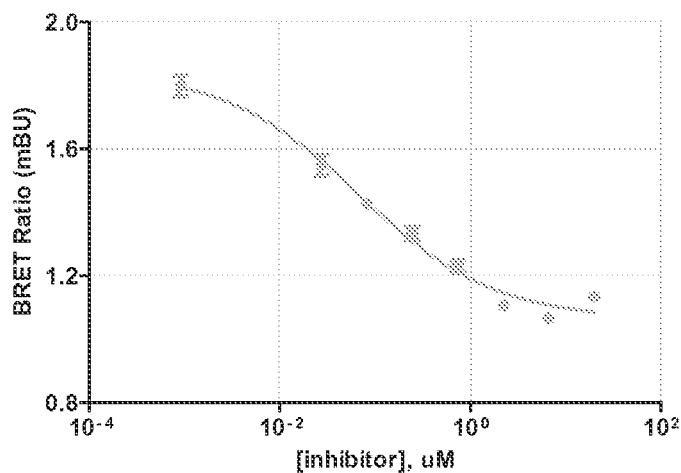
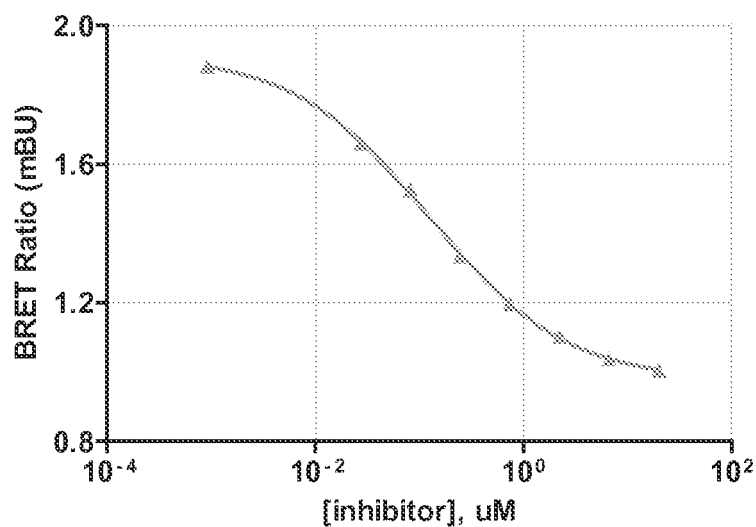


FIG. 17
Trichostatin A



M-344



Panabinoostat / LBH589

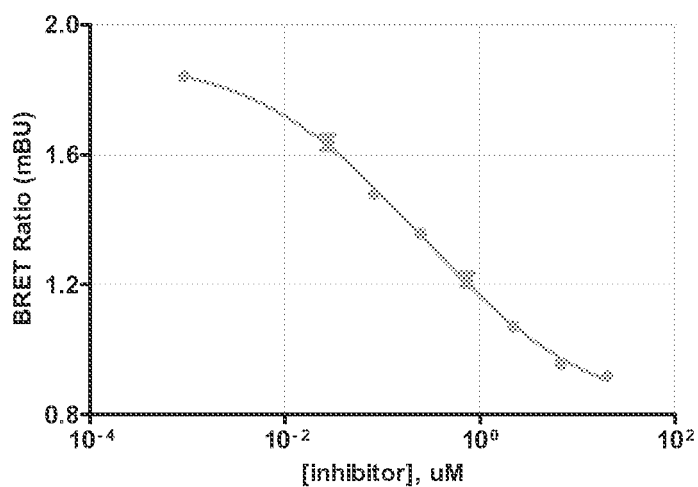
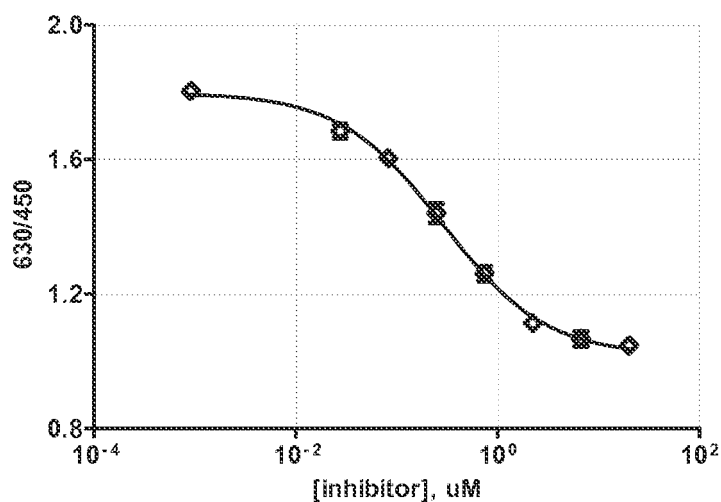
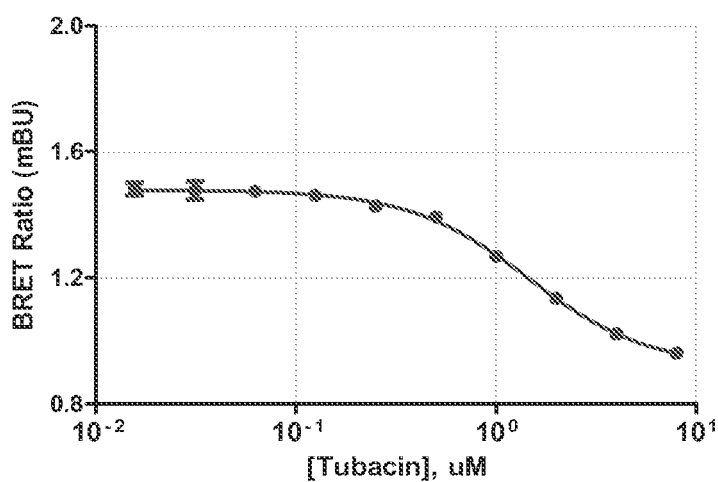


FIG. 17(cont.)

SAHA



Tubacin



FK-228

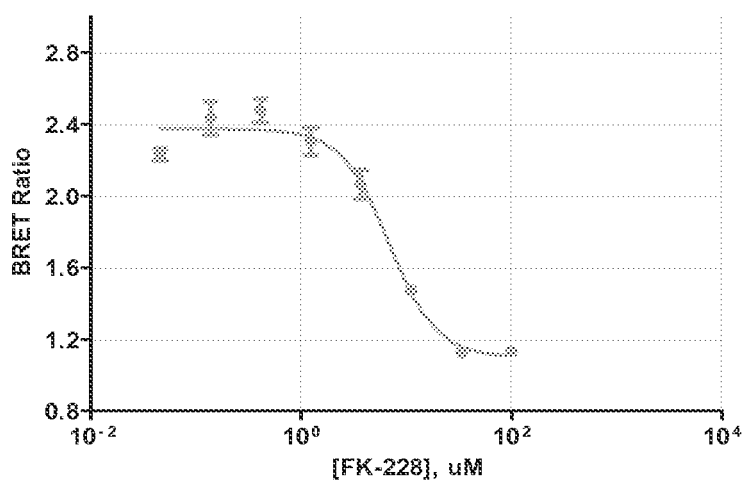
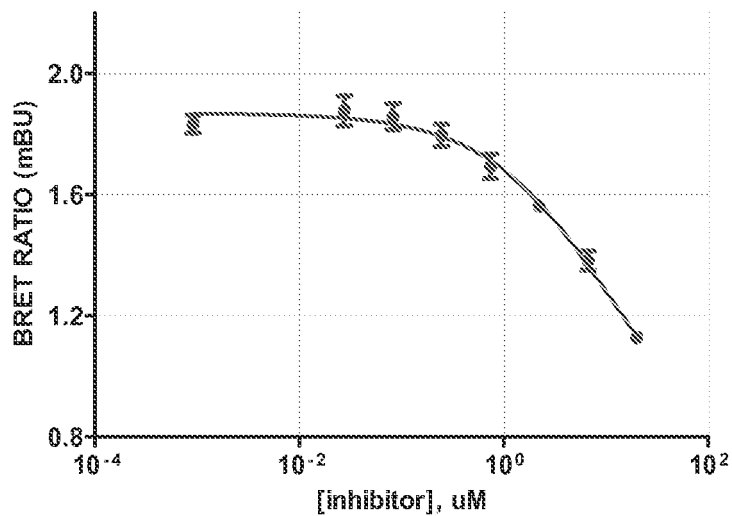
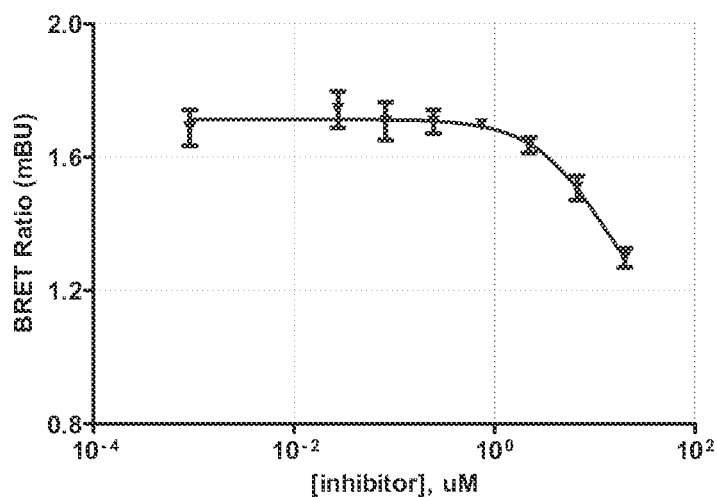


FIG. 17(cont.)
Compound 6h



Mocetinostat



Apicidin

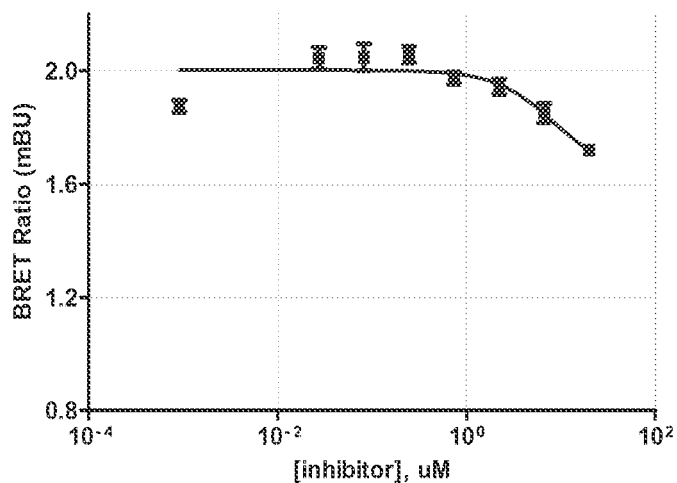


FIG. 18

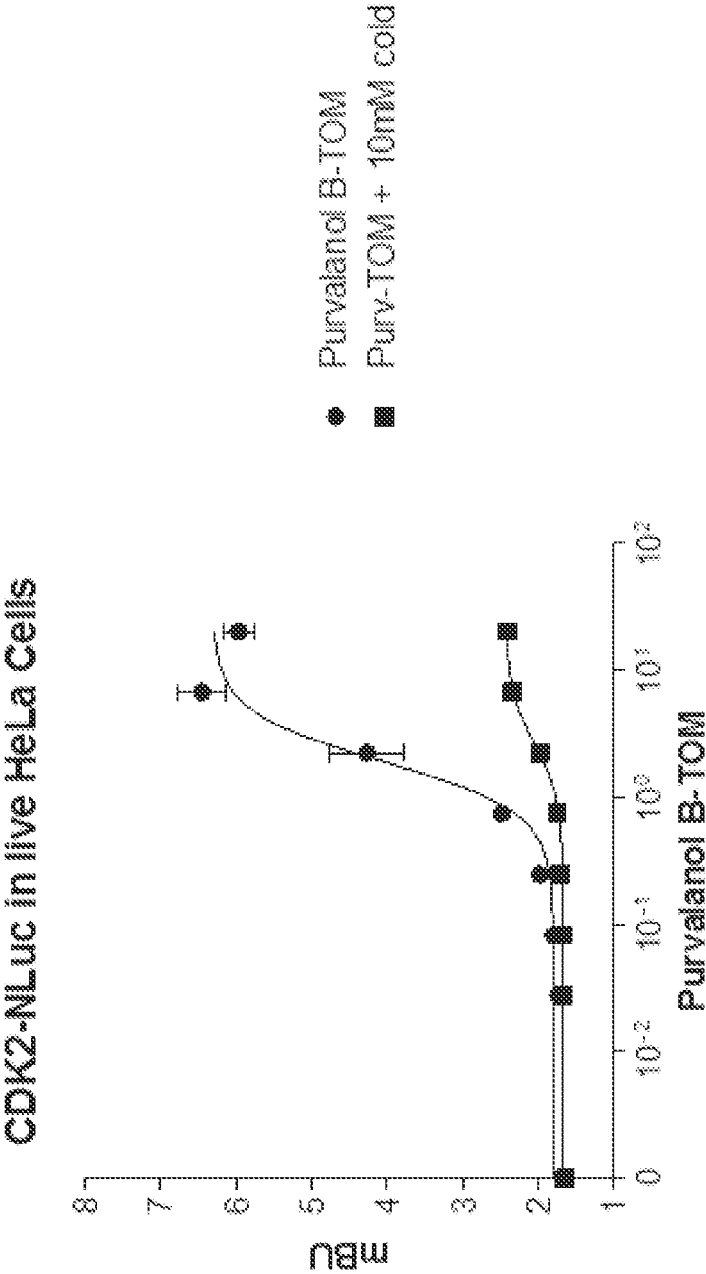


FIG. 19

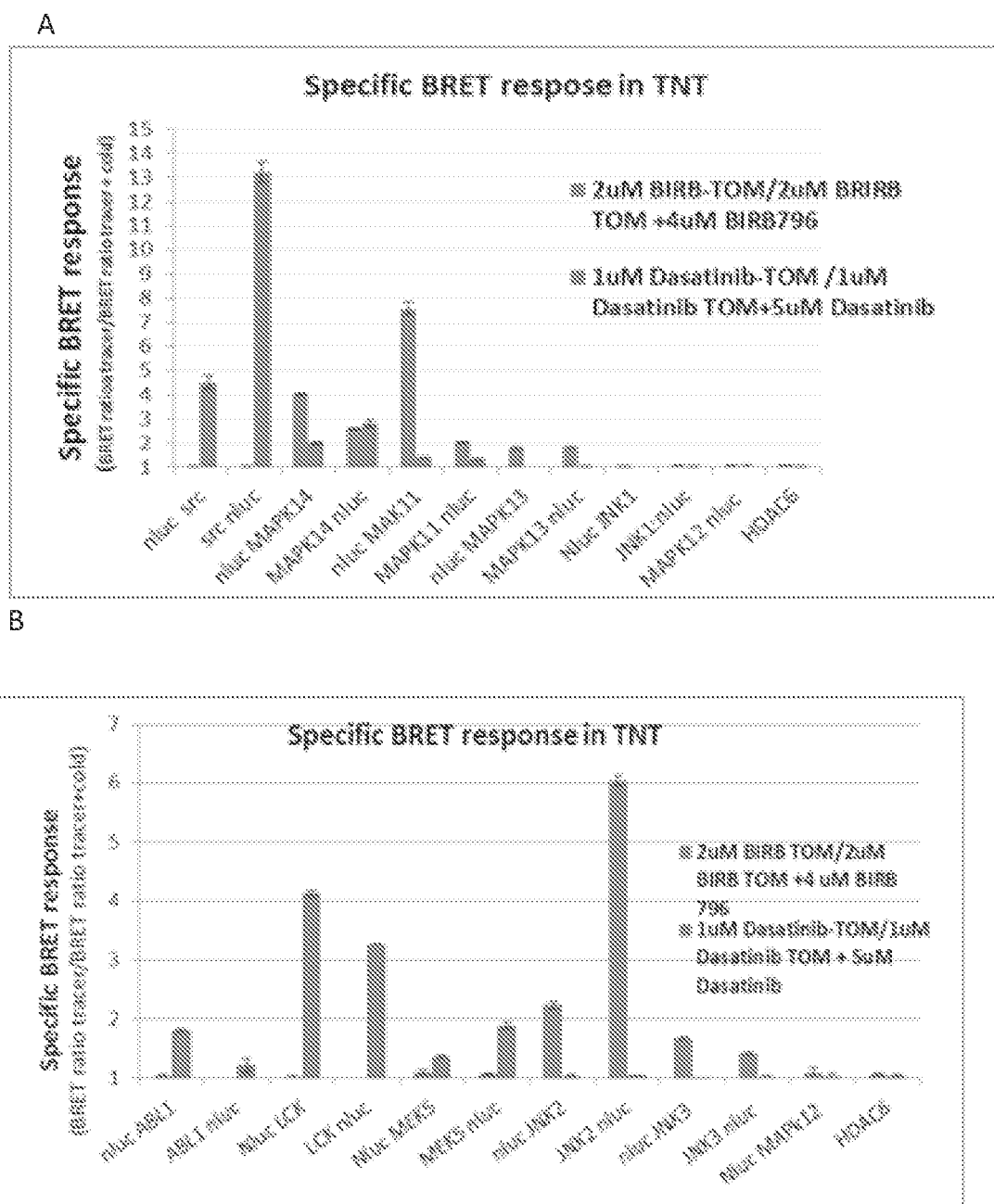


FIG. 20

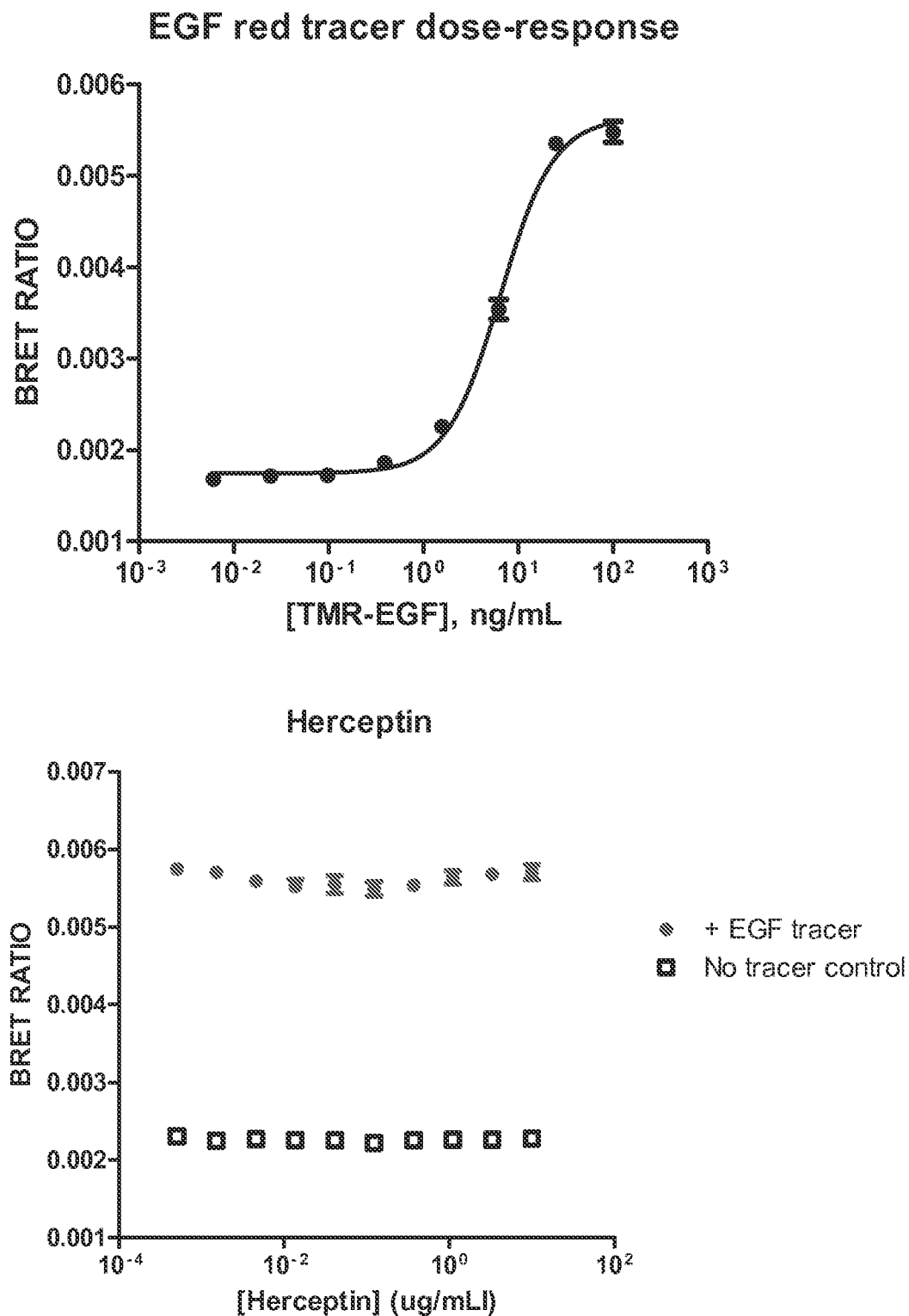


FIG. 20 (cont.)

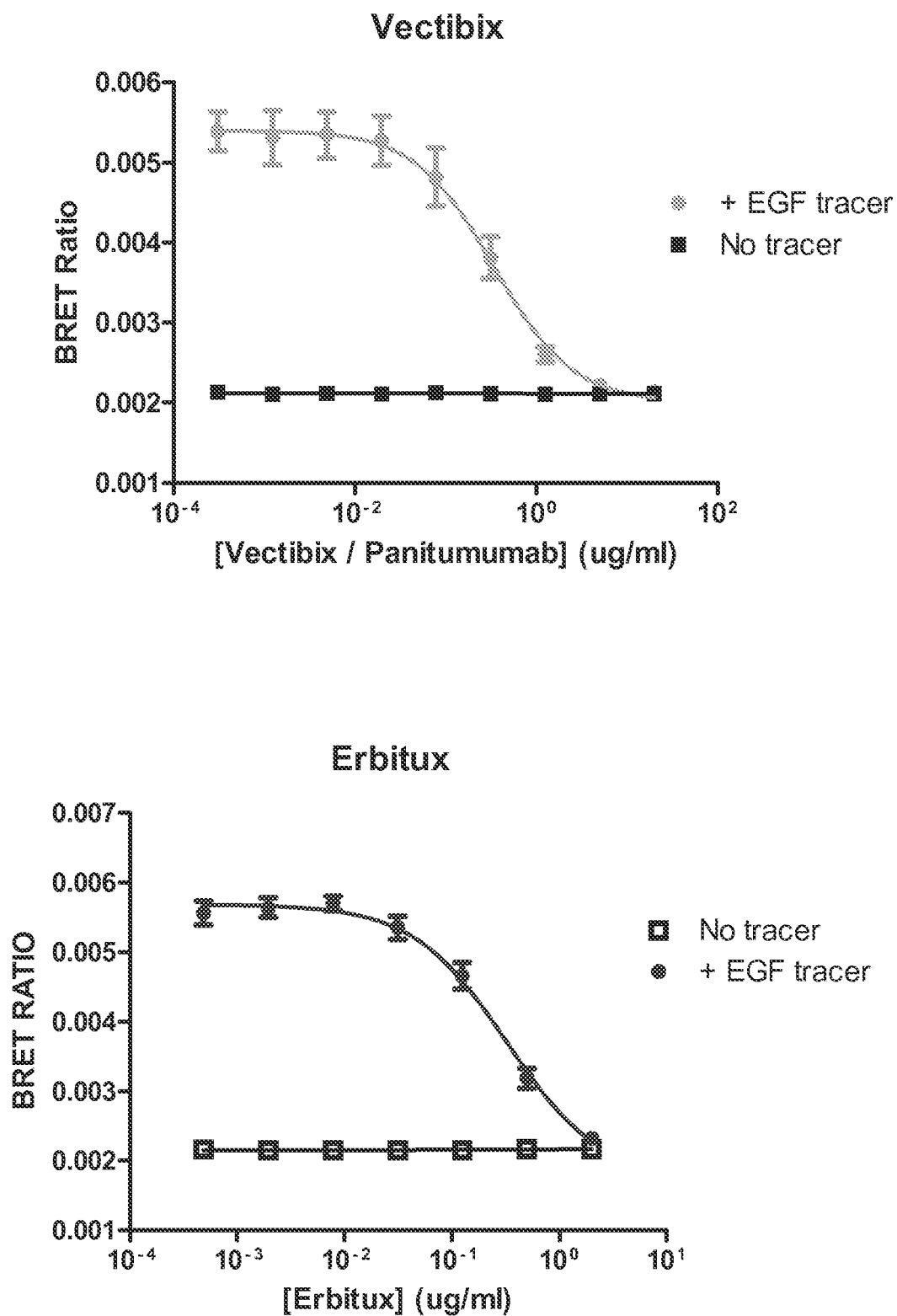


FIG. 21

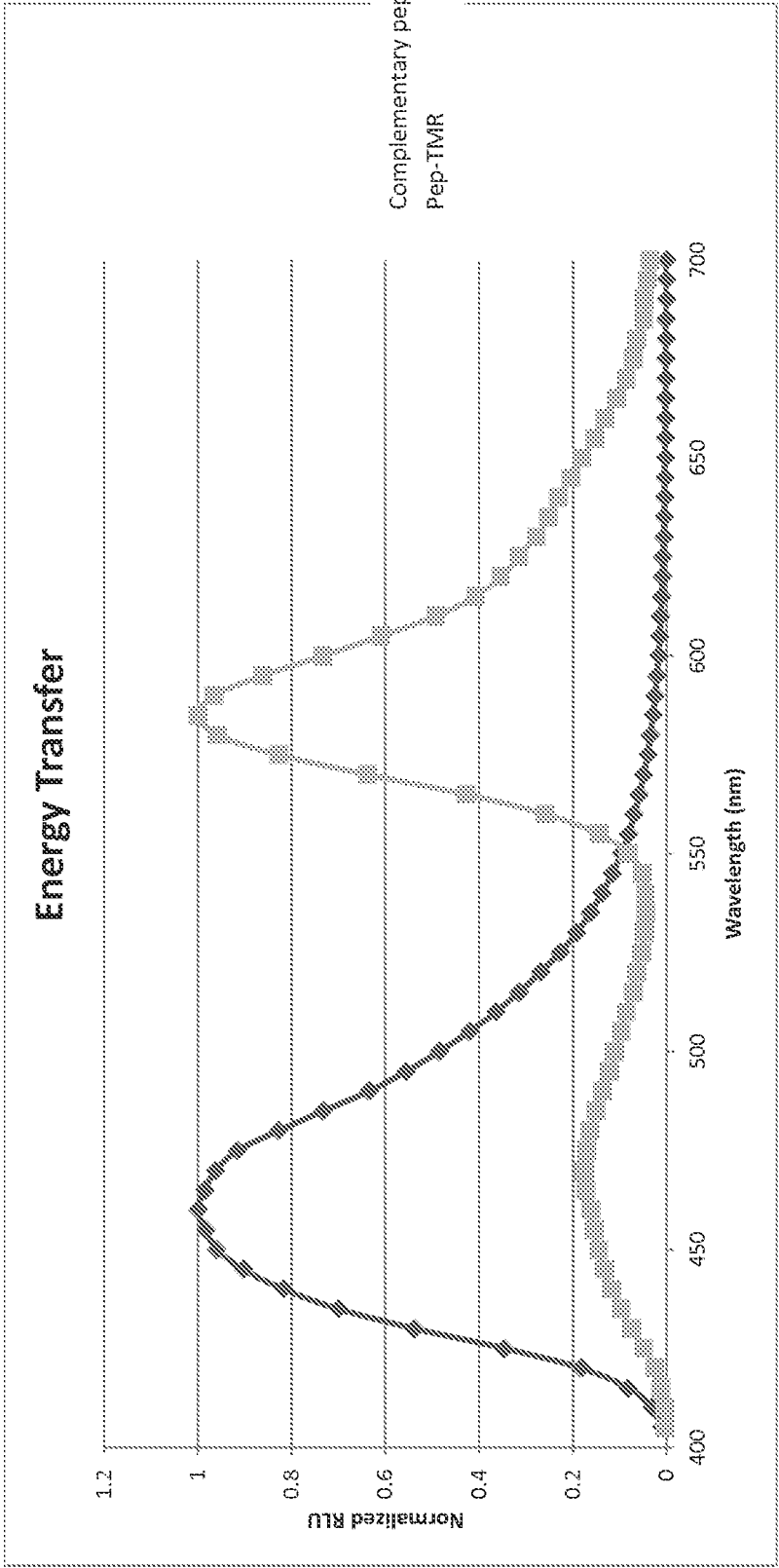


FIG. 21 (cont.)

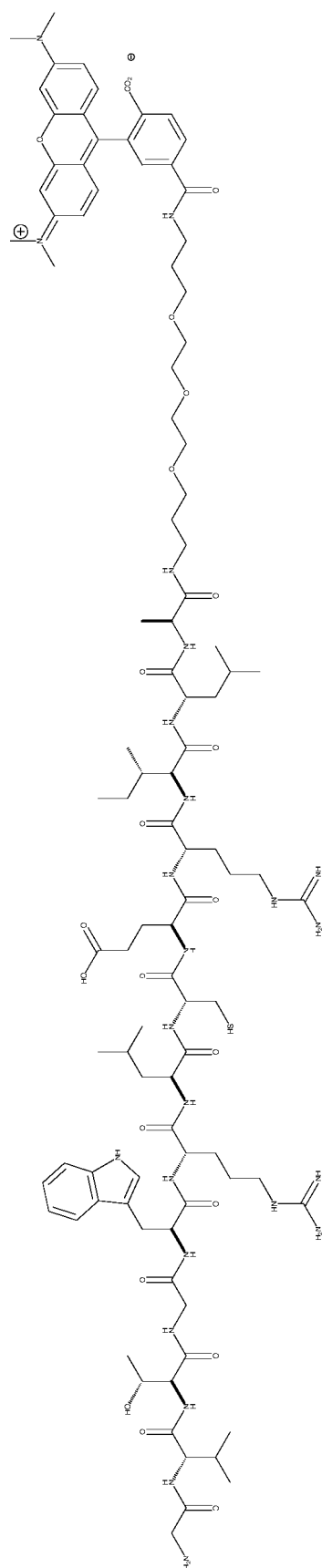
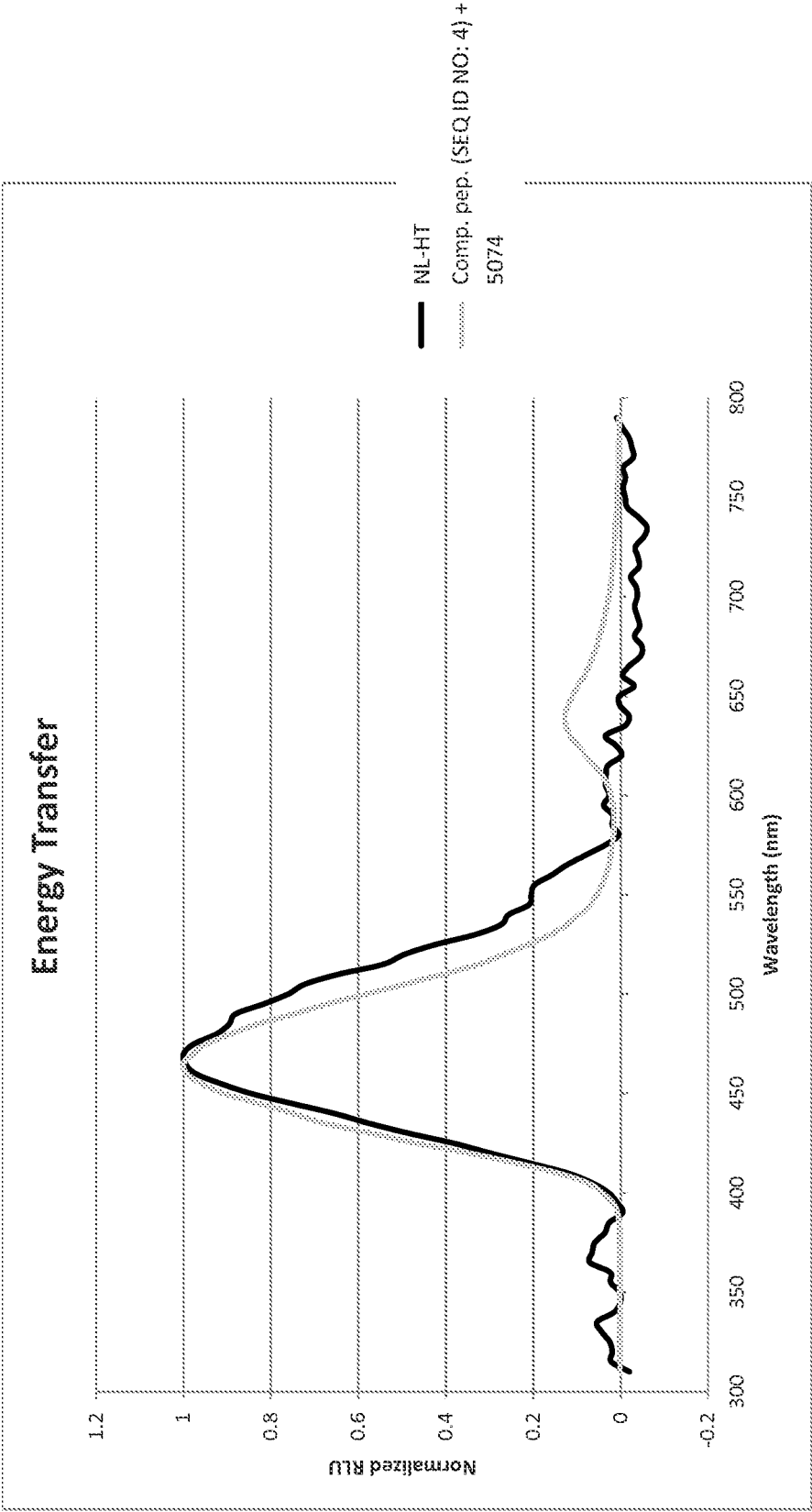


FIG. 22



5074 = NCT-DEVDGVTGWRLCERILA

FIG. 23

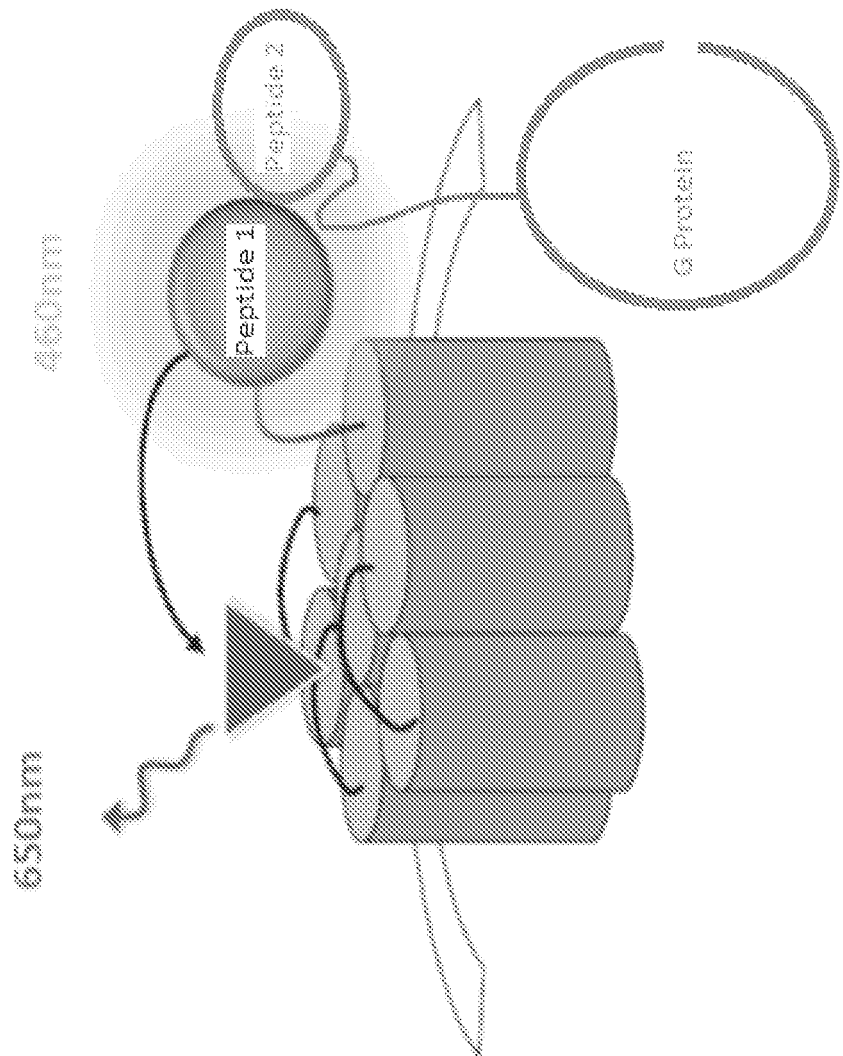


FIG. 24

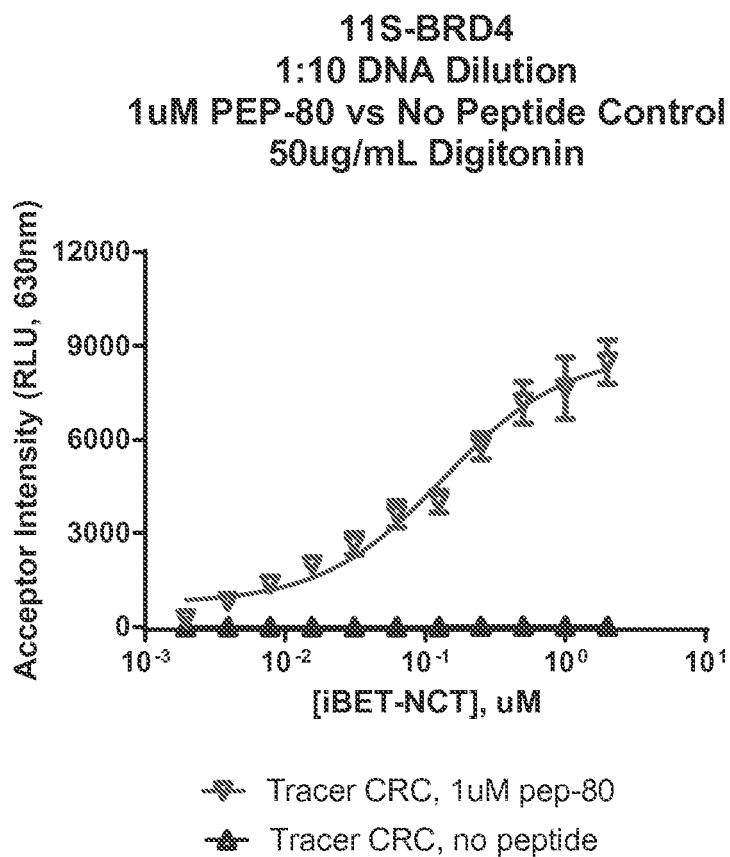
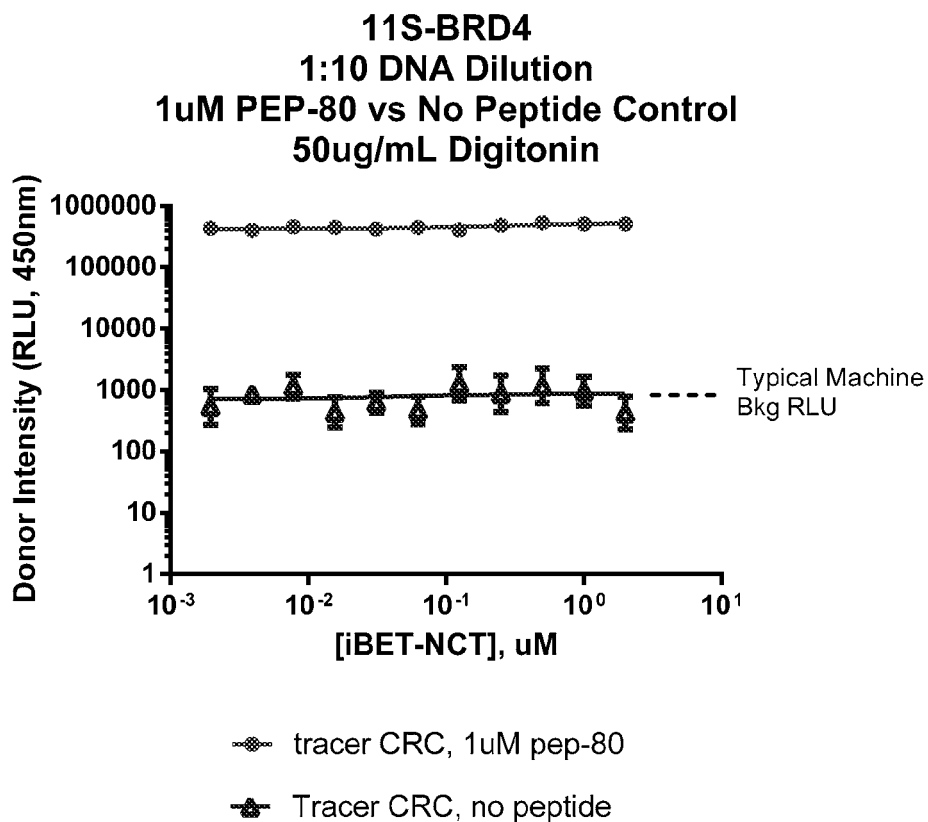


FIG. 25

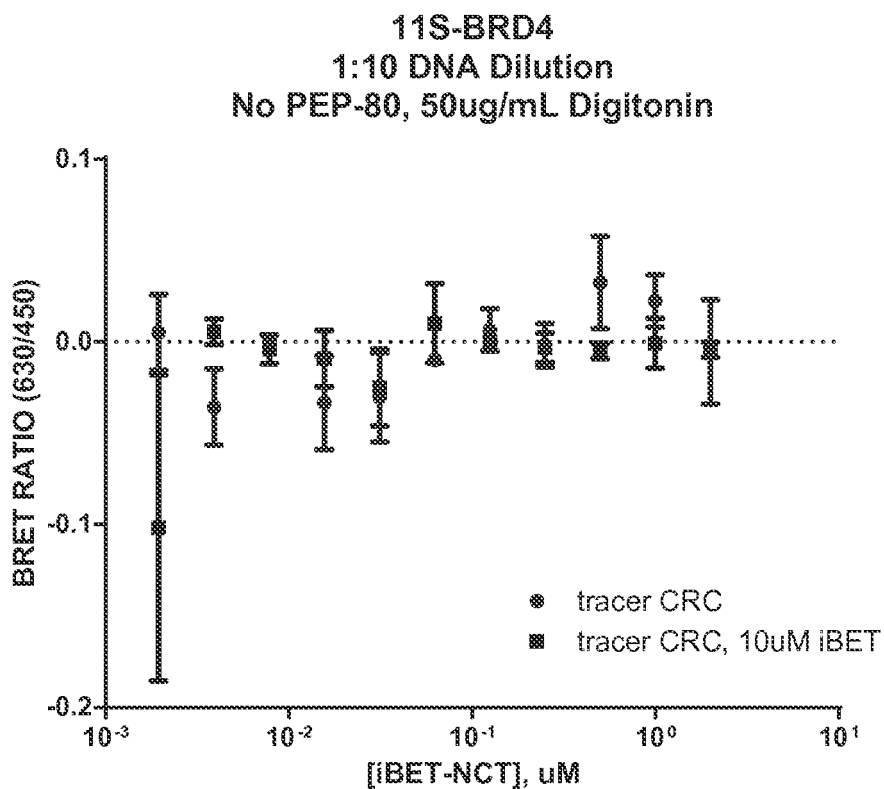
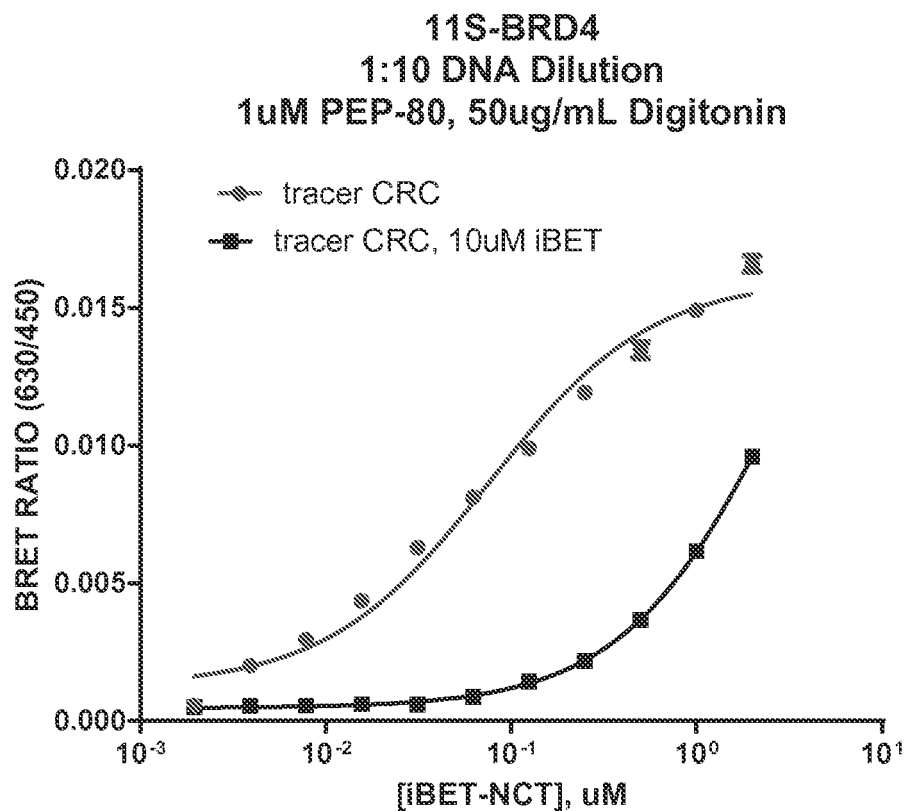


FIG. 26

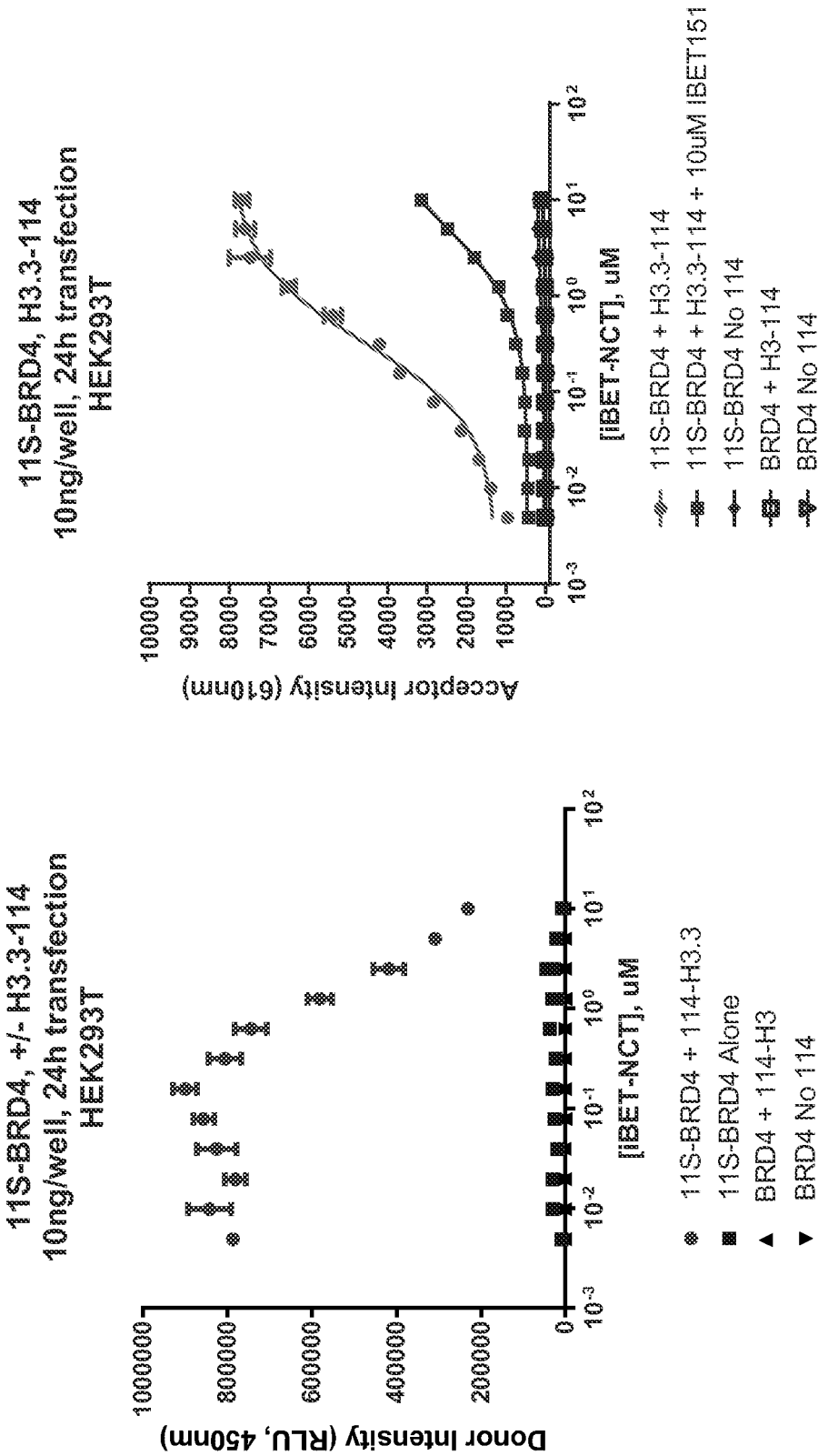


FIG. 27

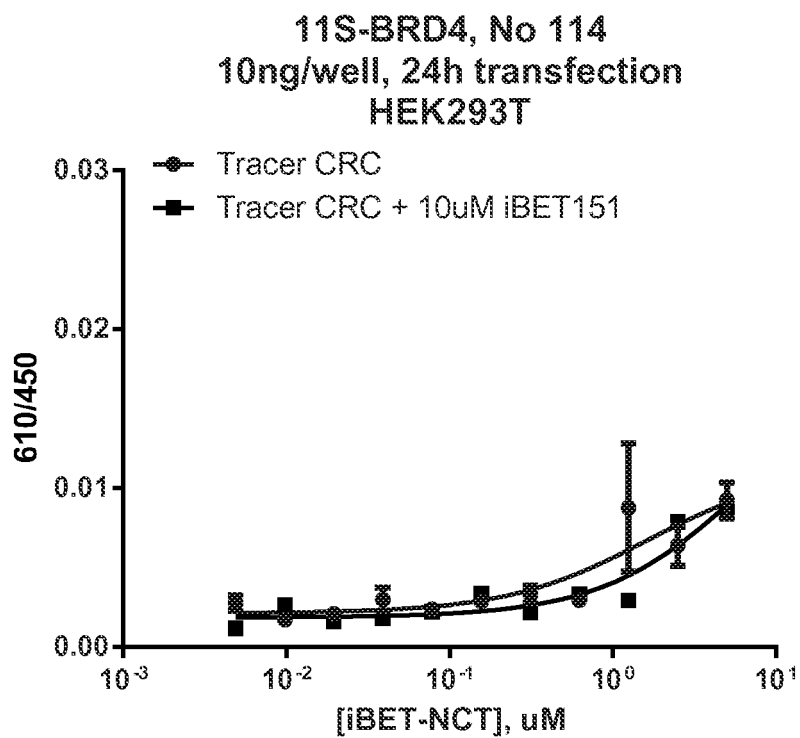
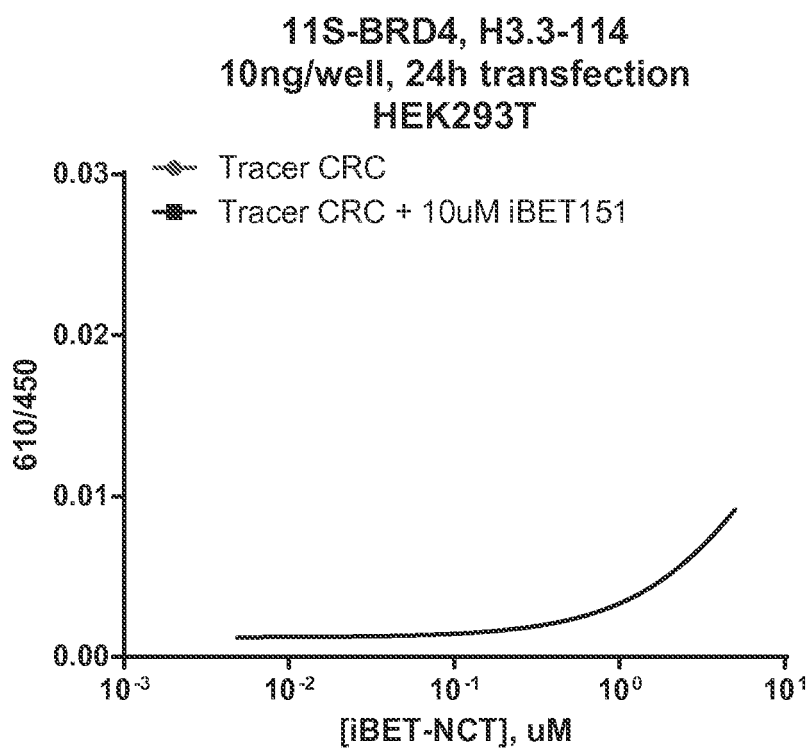


FIG. 27 (cont.)

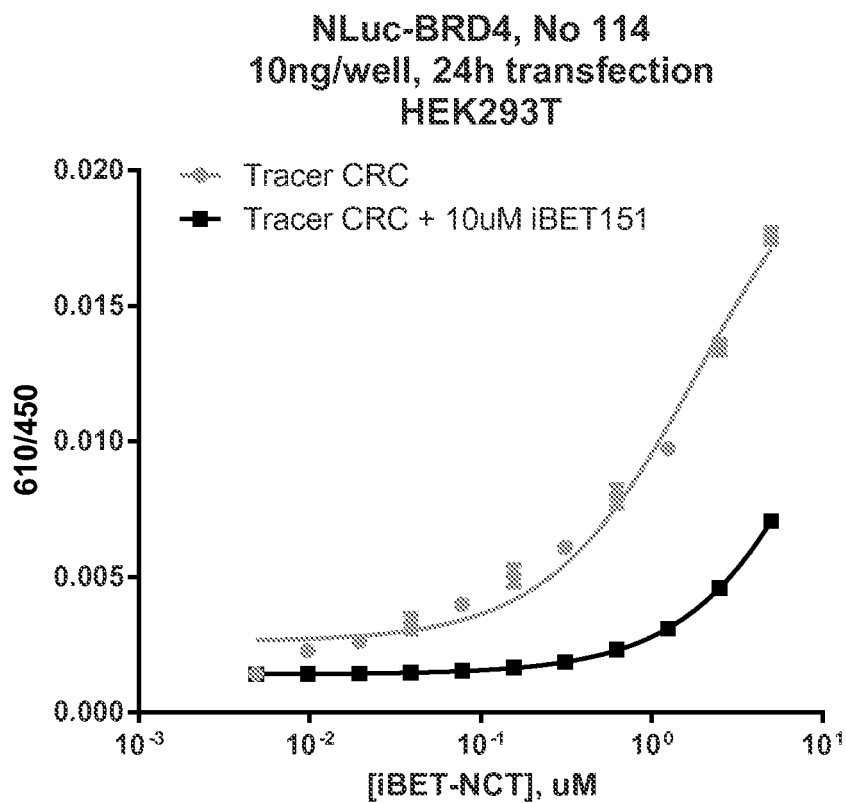
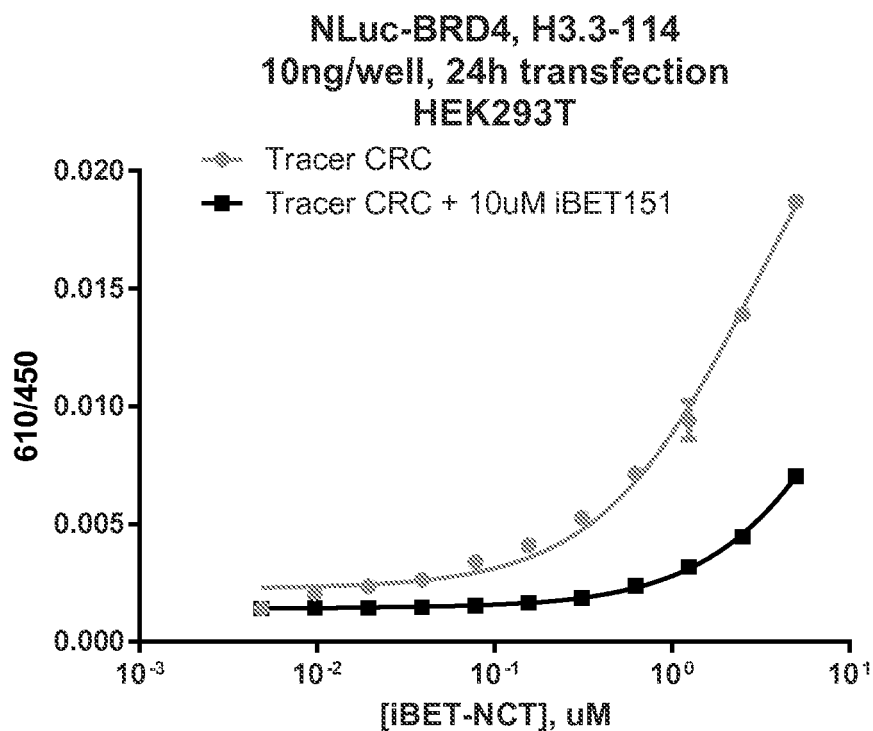


FIG. 28

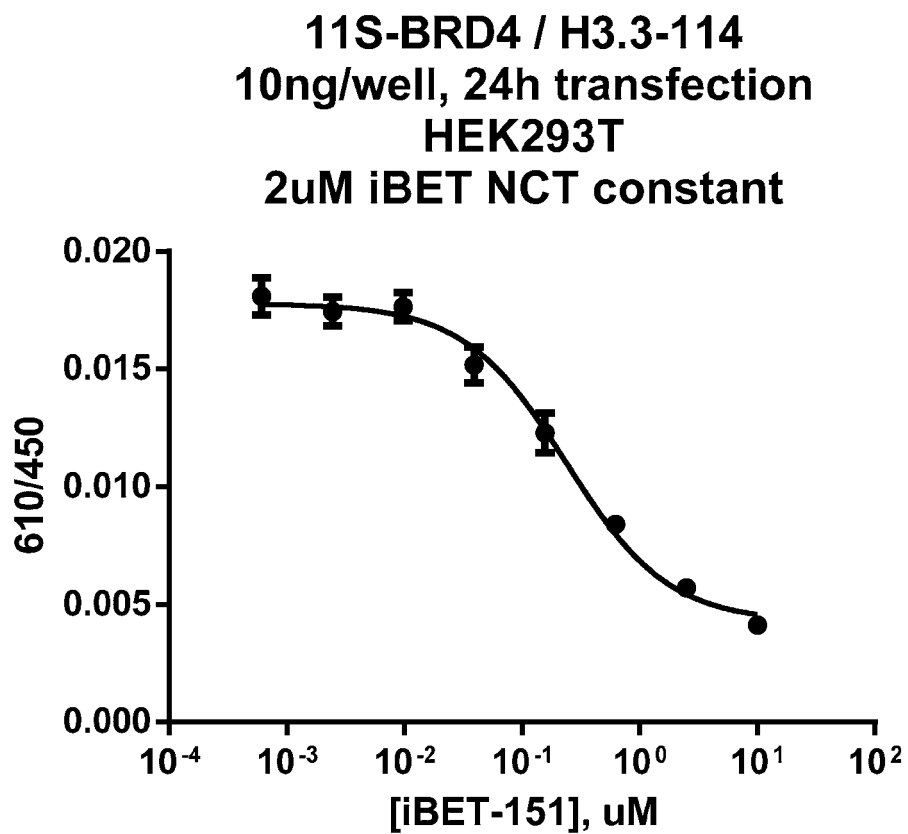


FIG. 29

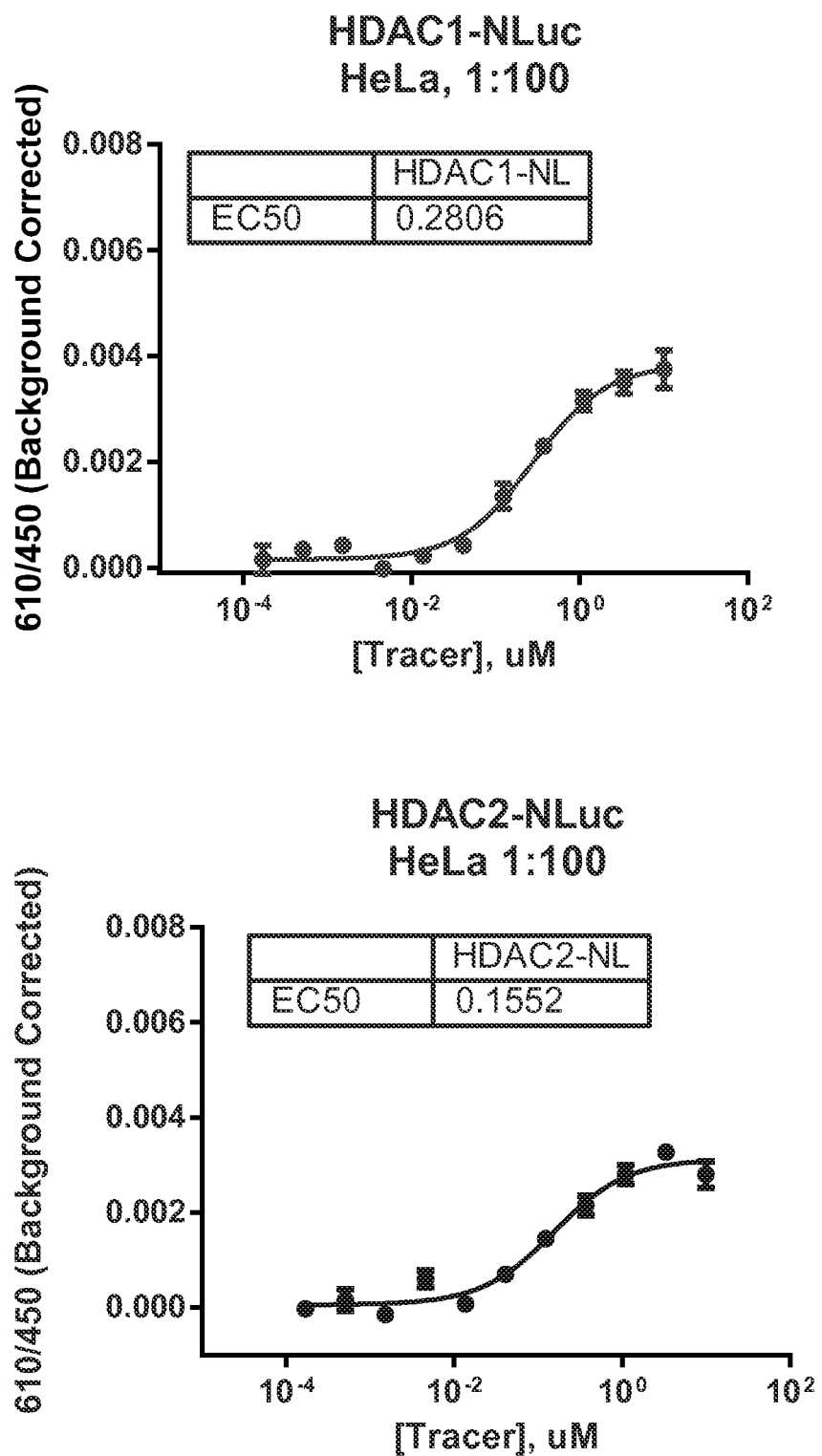


FIG. 29 (cont.)

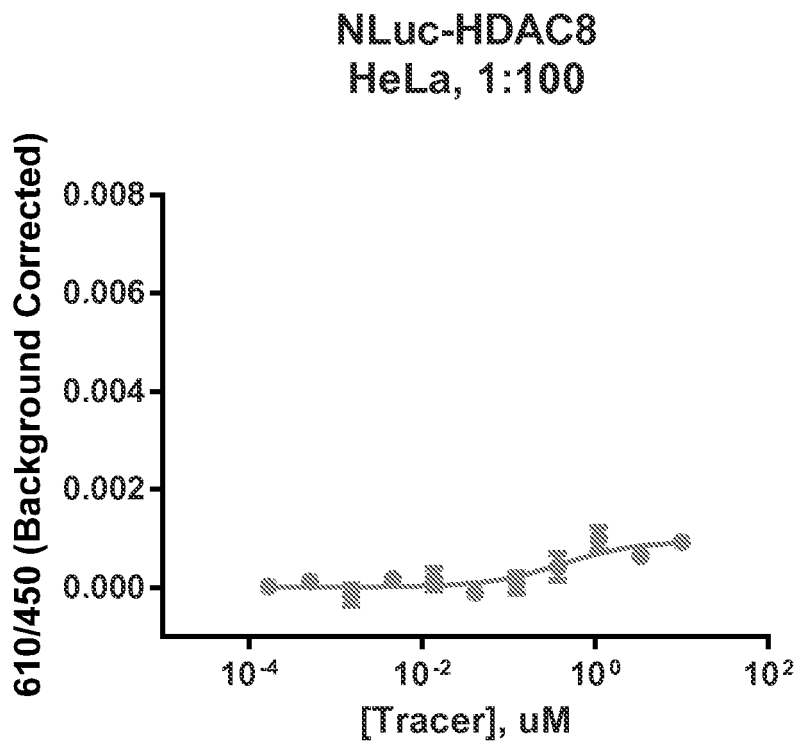
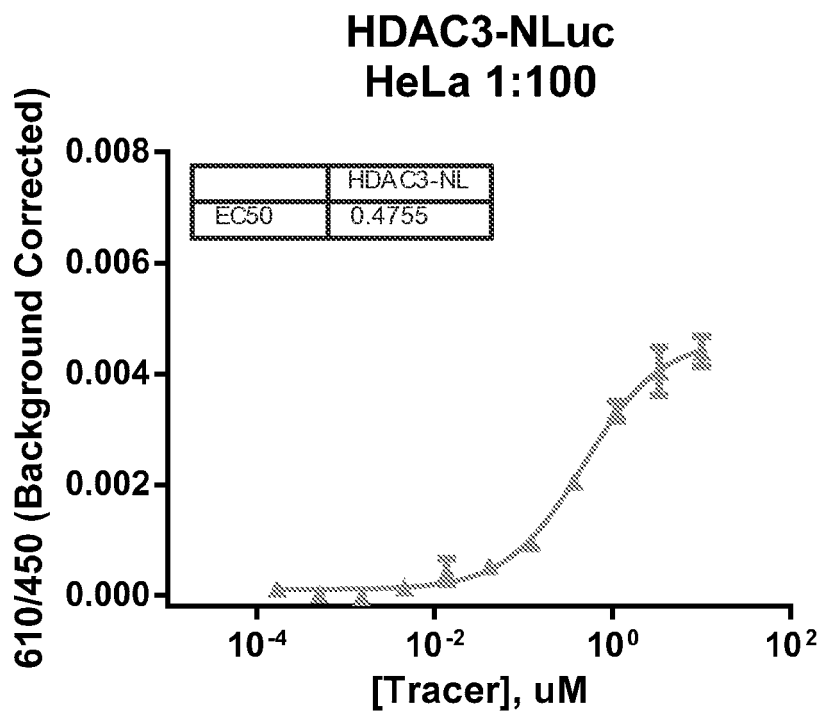


FIG. 30

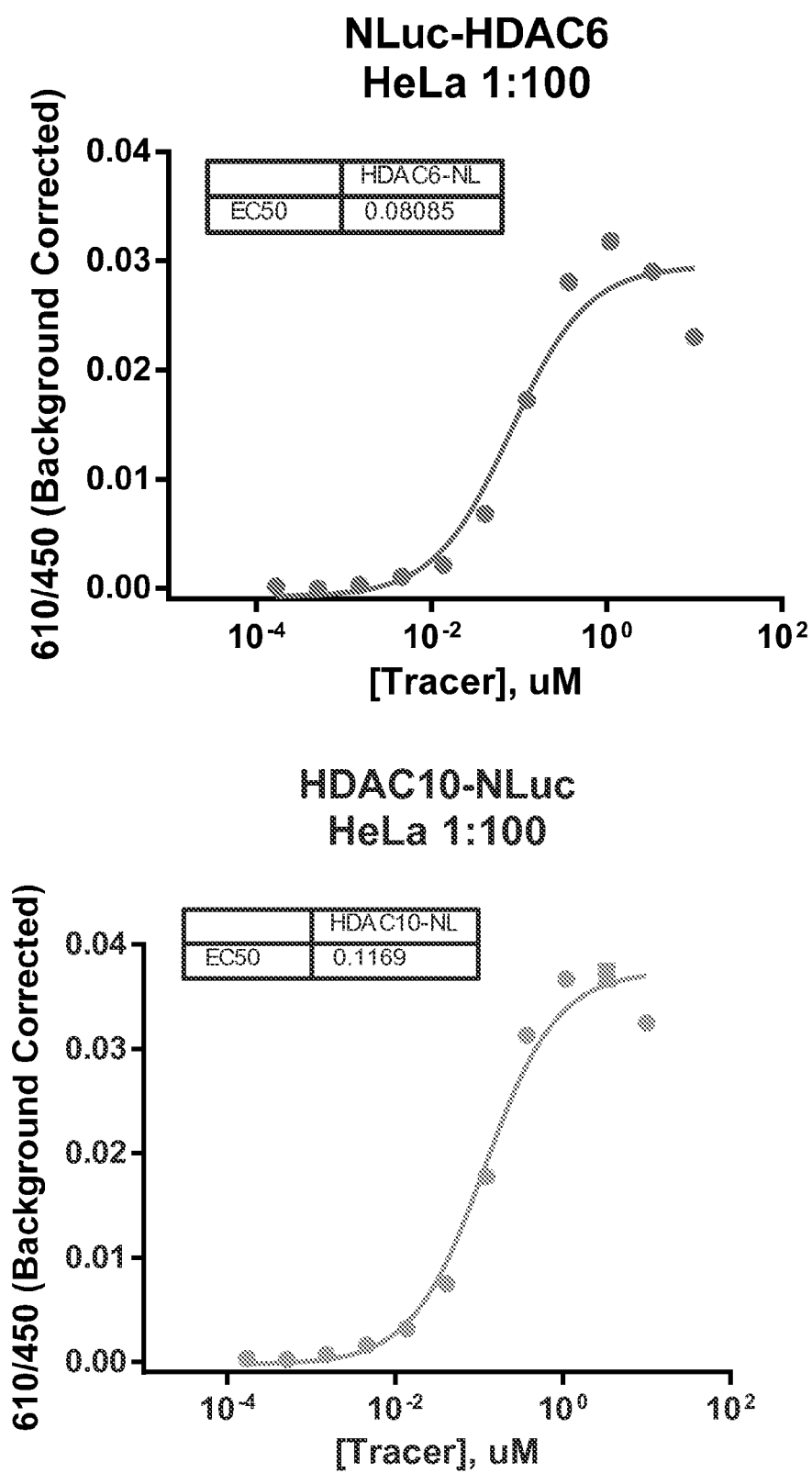
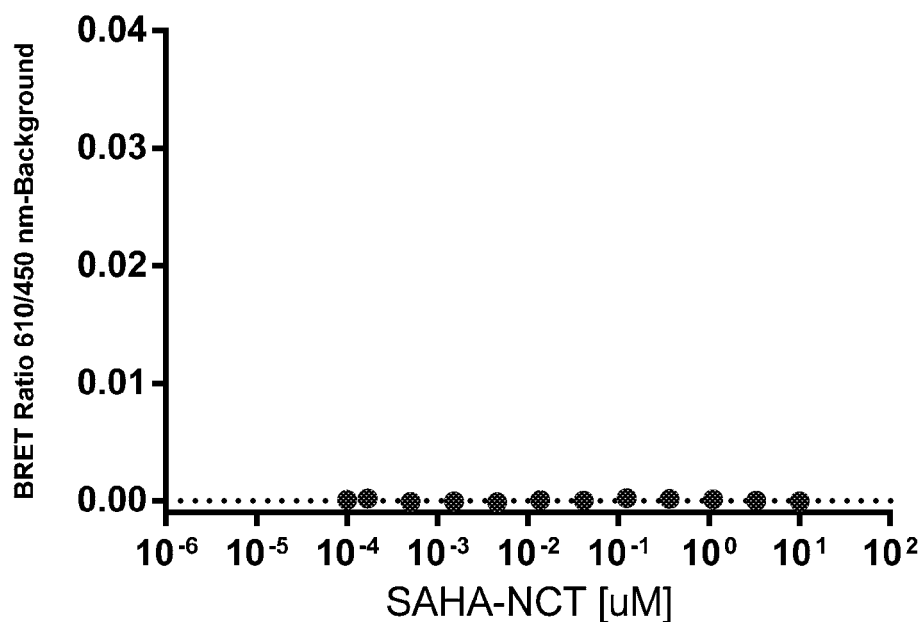


FIG. 30 (cont.)

NanoLuc-HDAC6 CD1 HeLa



NanoLuc-HDAC6 CD2 HeLa

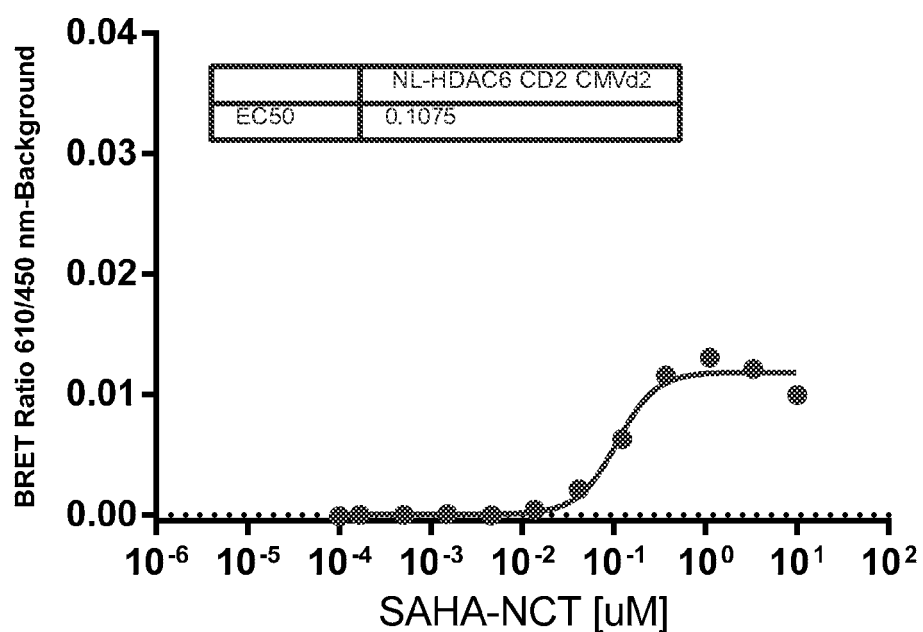


FIG.31

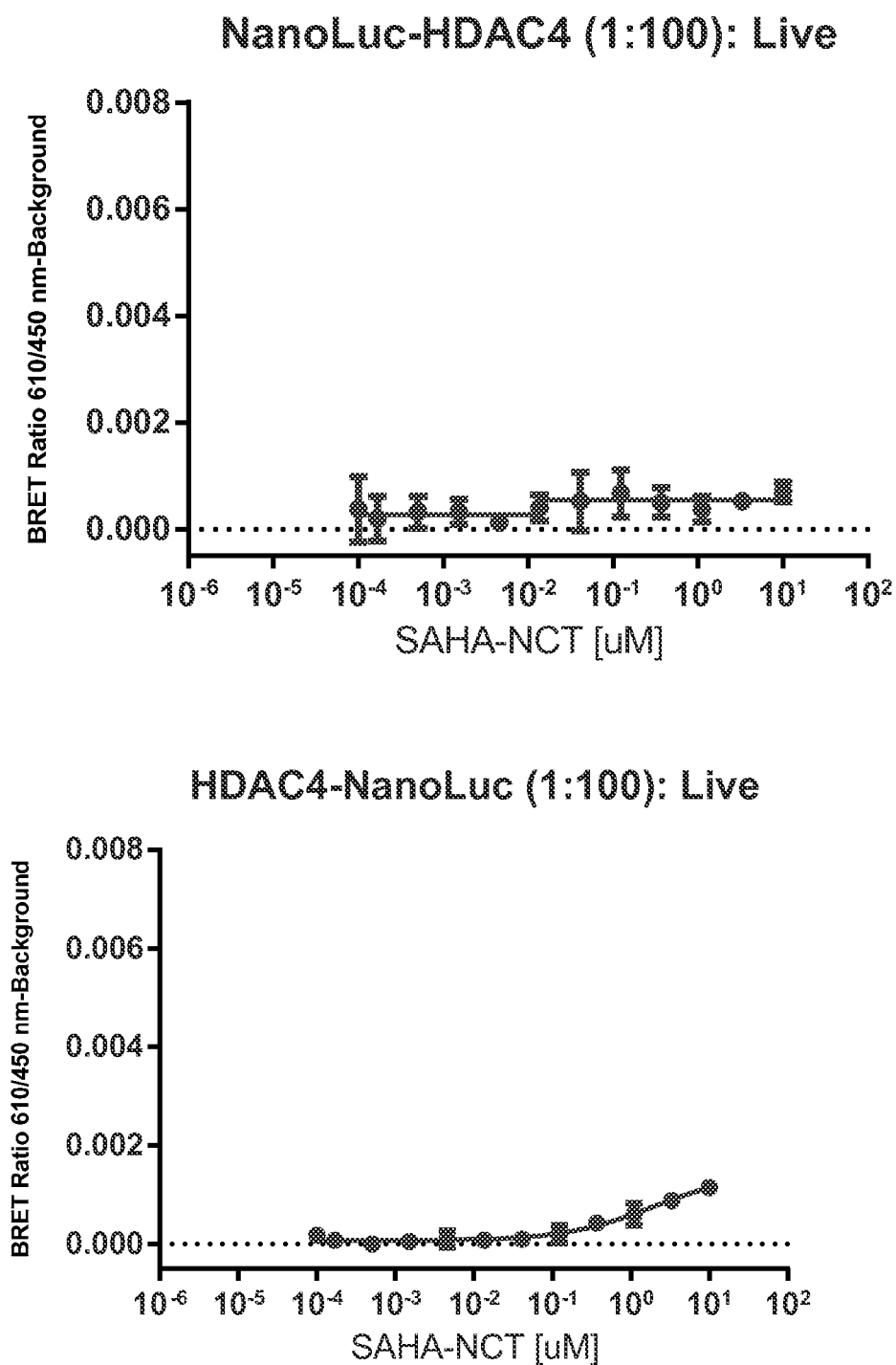


FIG.31 (cont.)

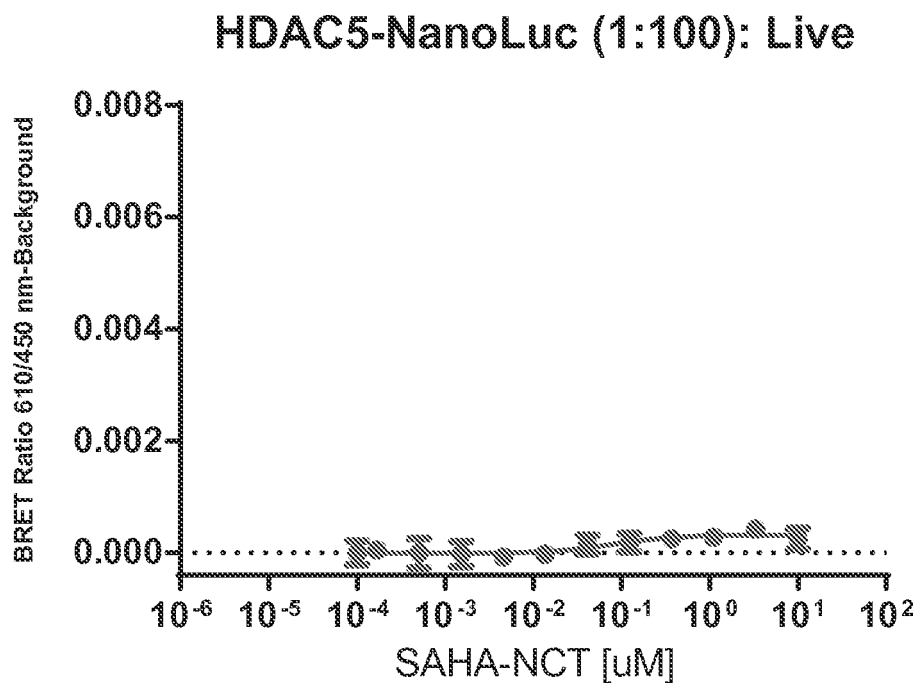
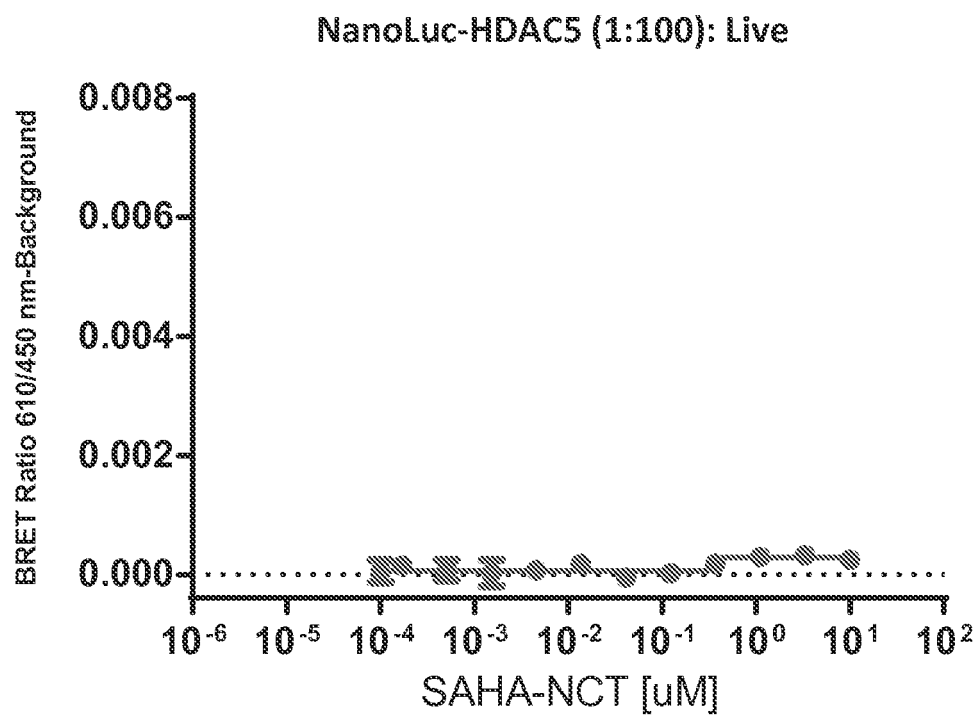


FIG.31 (cont.)

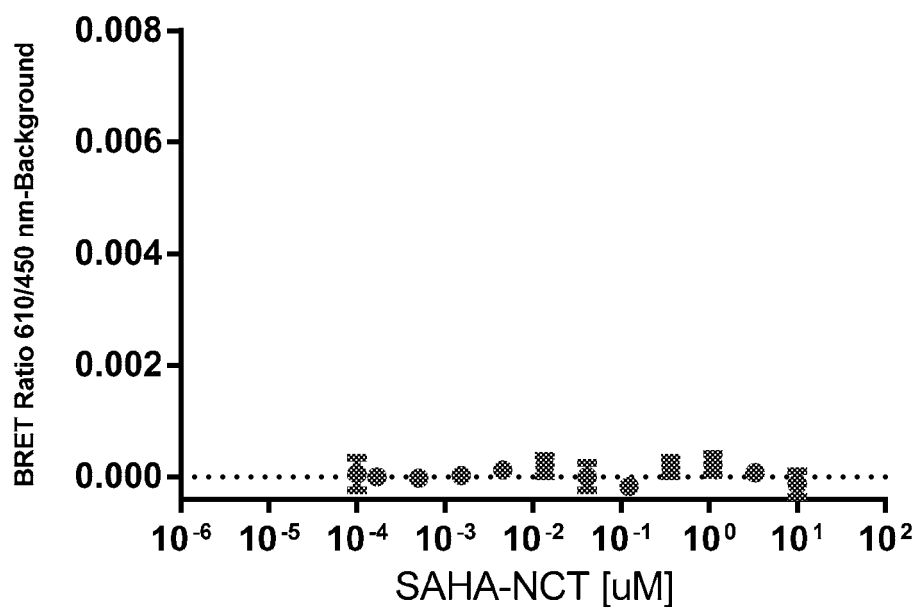
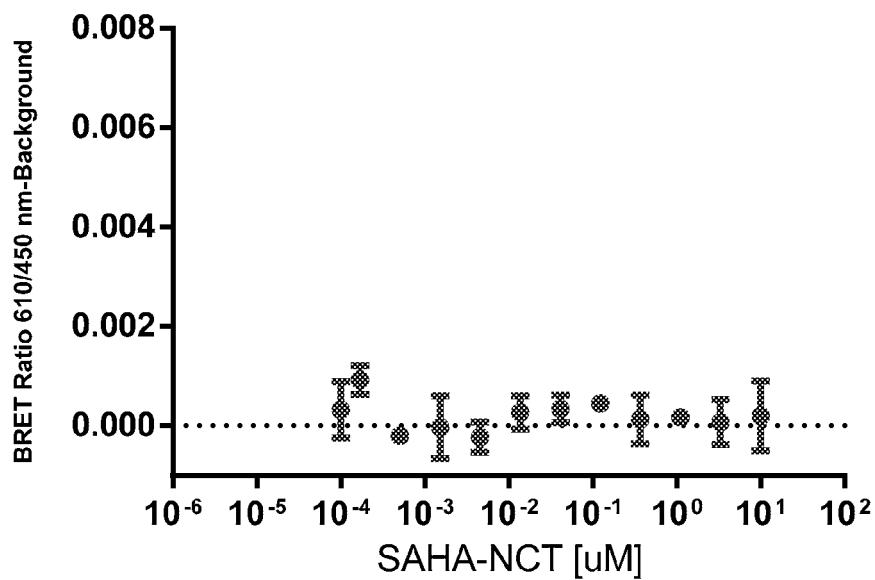
NanoLuc-HDAC9 (1:100): Live**HDAC9-NanoLuc (1:100): Live**

FIG.31 (cont.)

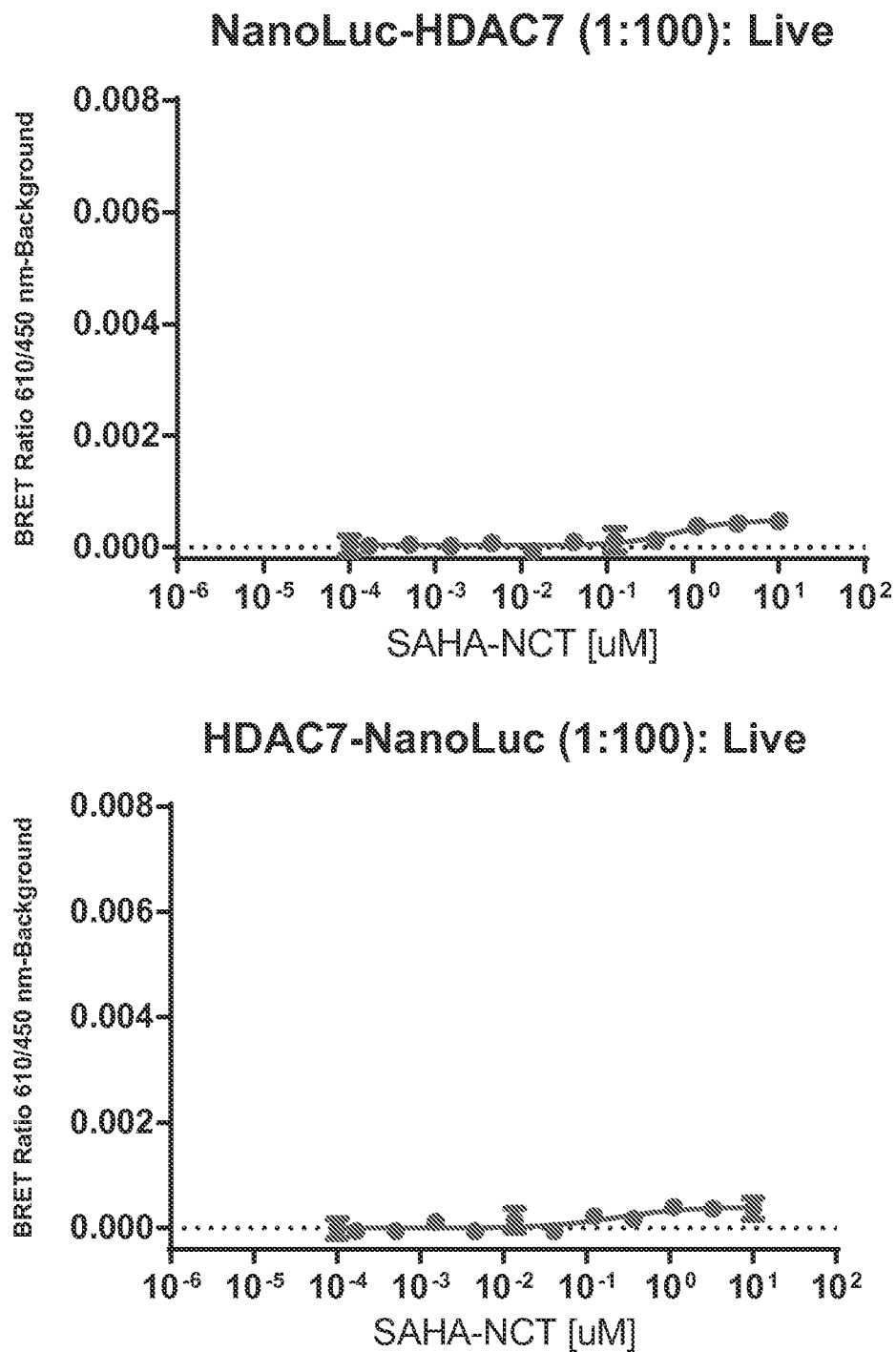


FIG.31 (cont.)

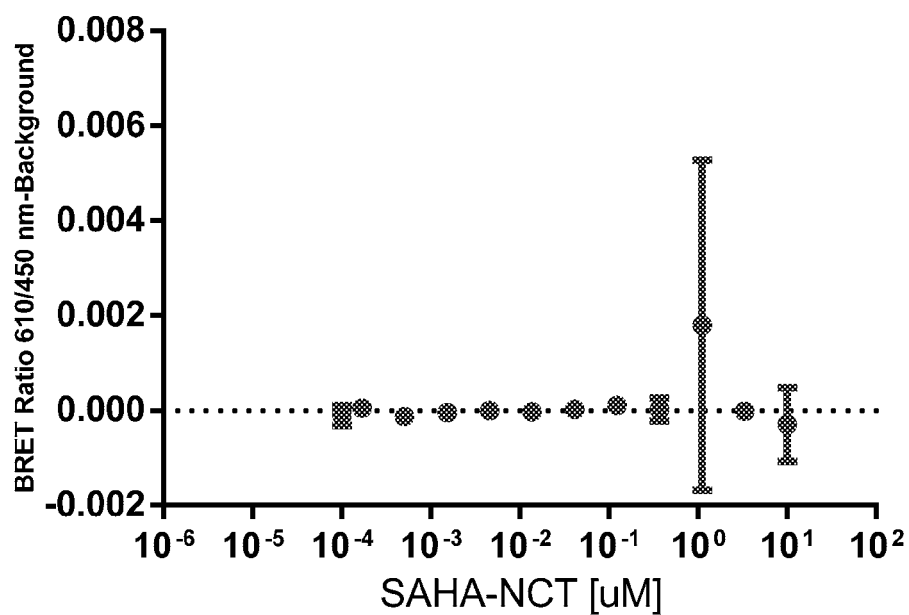
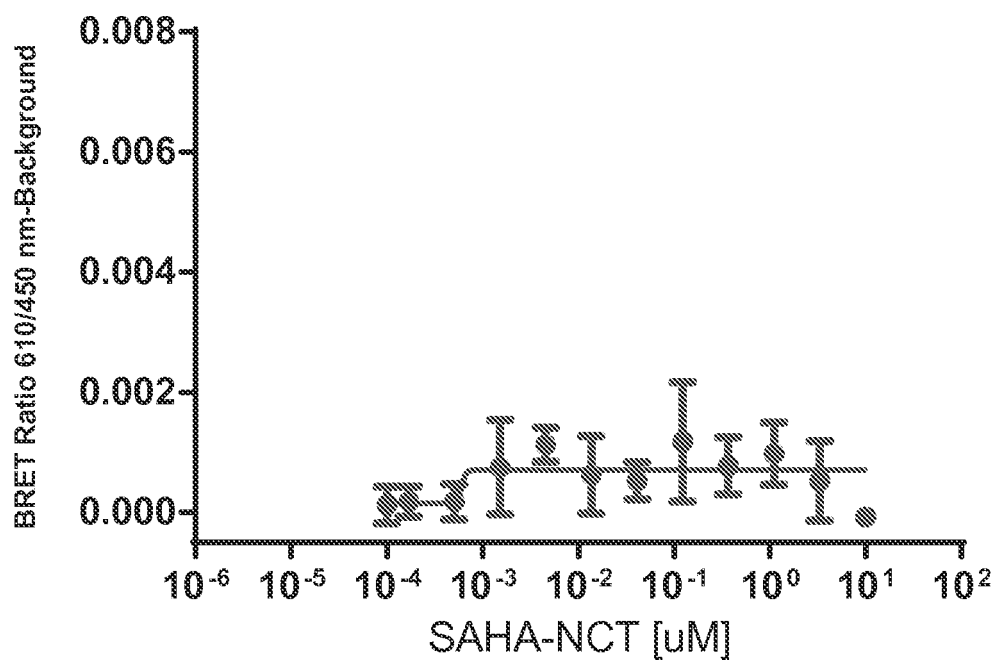
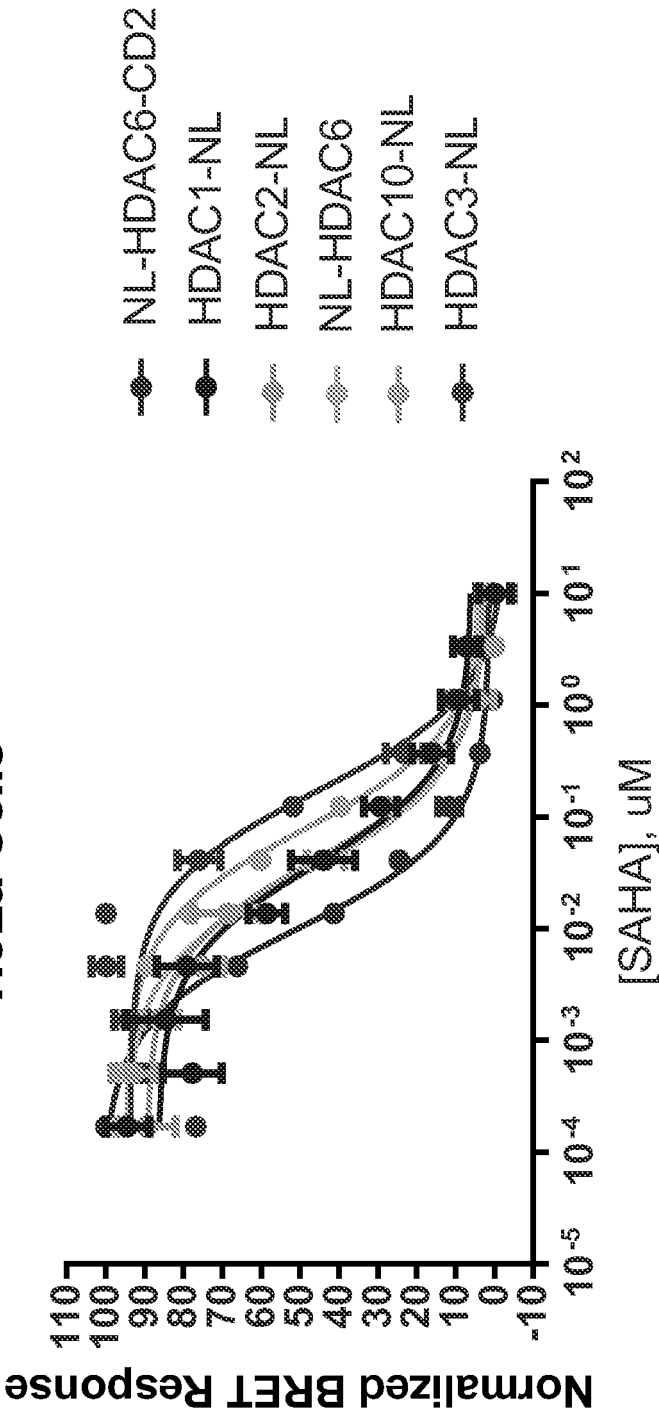
NanoLuc-HDAC11 (1:100): Live**HDAC11-NanoLuc (1:100): Live**

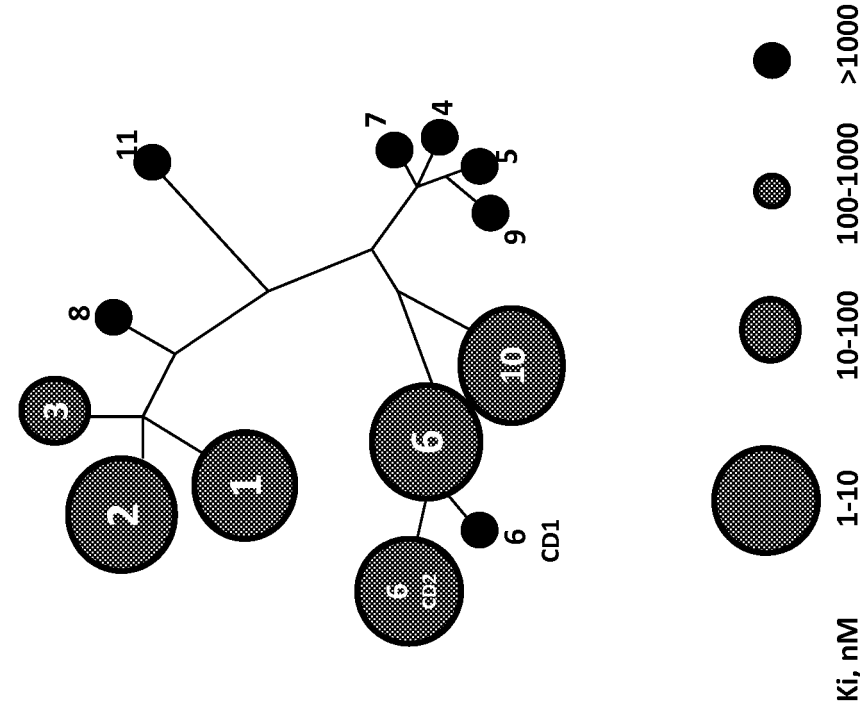
FIG. 32

SAHA IC50
Competitive Tracer Displacement
HeLa Cells



	HDAC1-NL	HDAC2-NL	HDAC3-NL	NL-HDAC6	HDAC10-NL	NL-HDAC6-CD2
IC50	0.03720	0.04126	0.1712	0.03075	0.07842	0.009810

FIG. 33



Isotype	Tracer EC50, nM	IC50, nM	Ki, nM
HDAC1	280	37	8.1
HDAC2	160	41	5.7
HDAC3	480	170	55
HDAC6	80	31	2.3
HDAC10	120	78	8.3
HDAC6 CD2	100	10	1

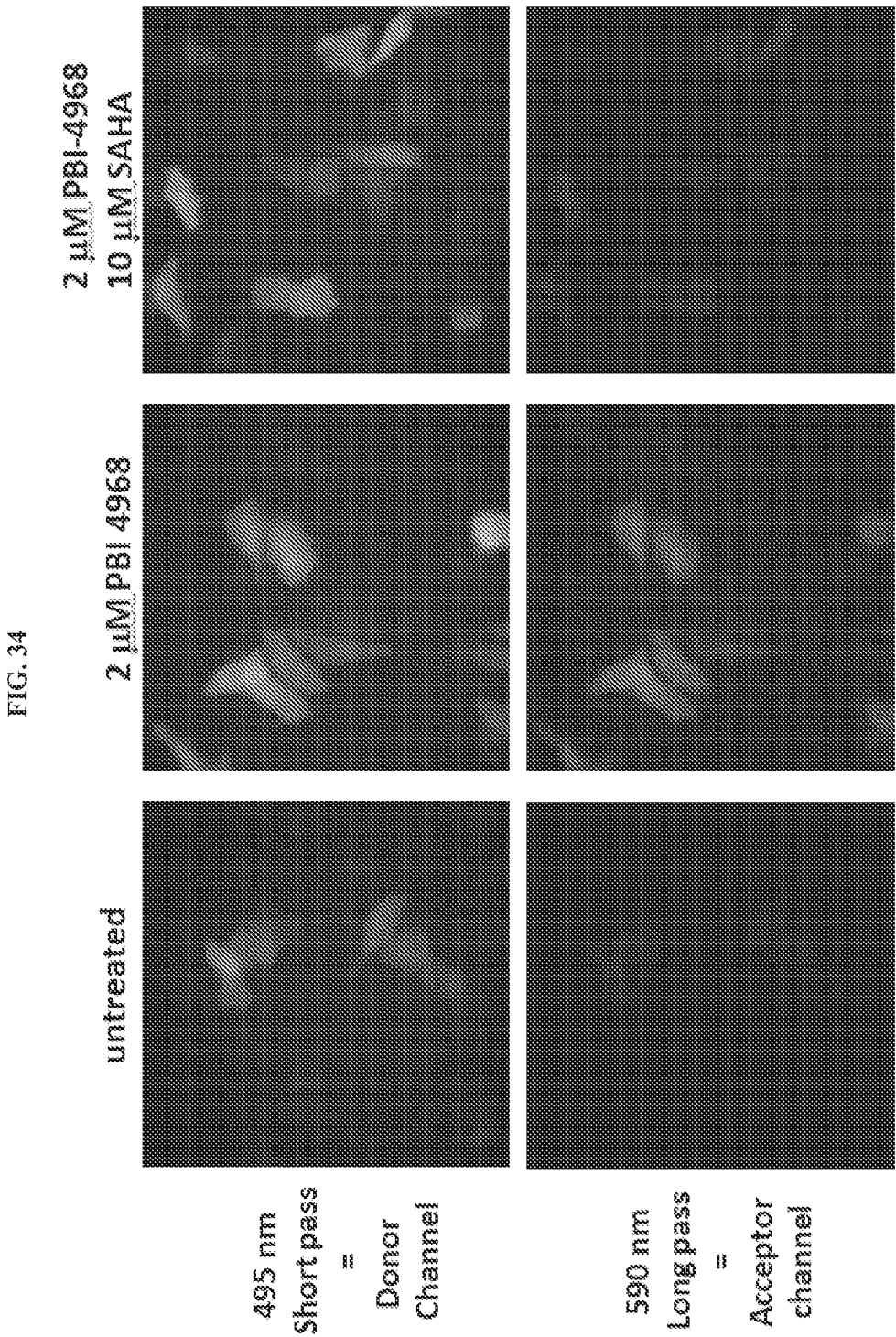


FIG. 35

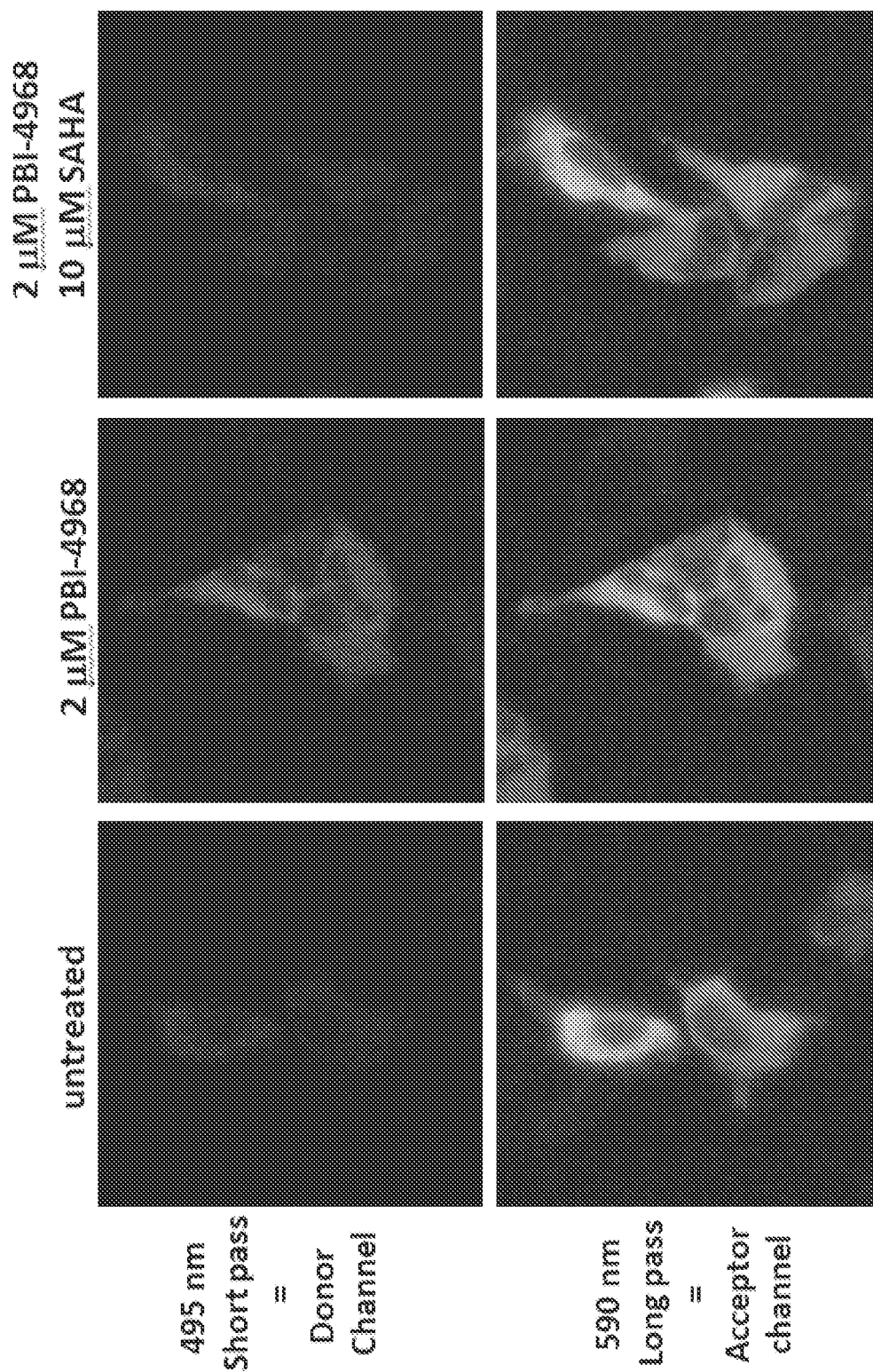


FIG. 36

