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FIG. 1A

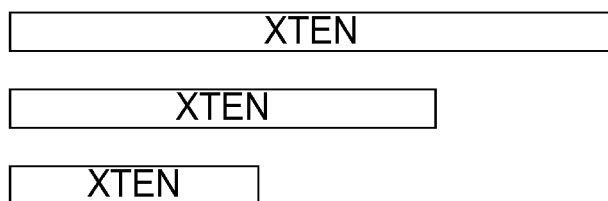


FIG. 1B

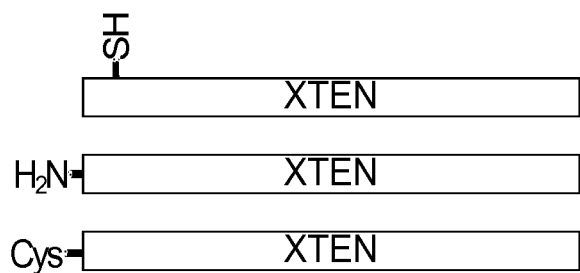


FIG. 1C

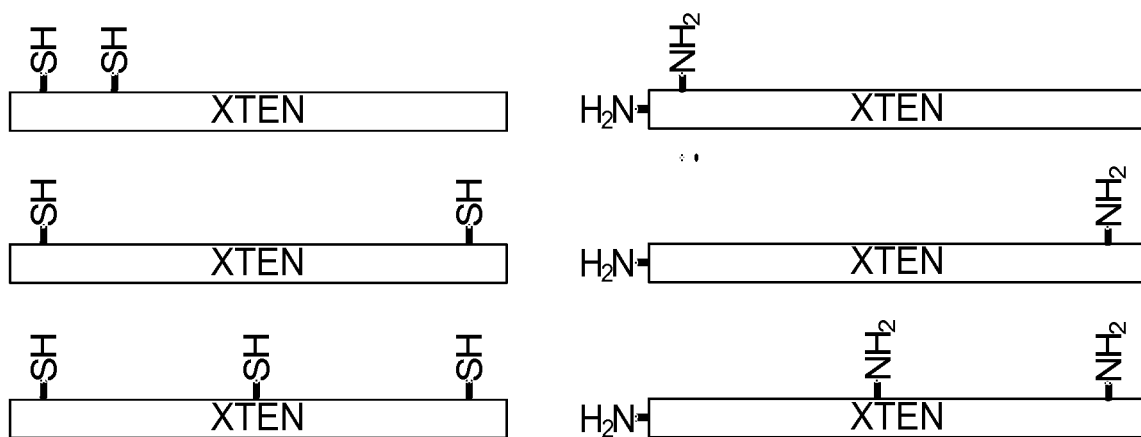


FIG. 1D

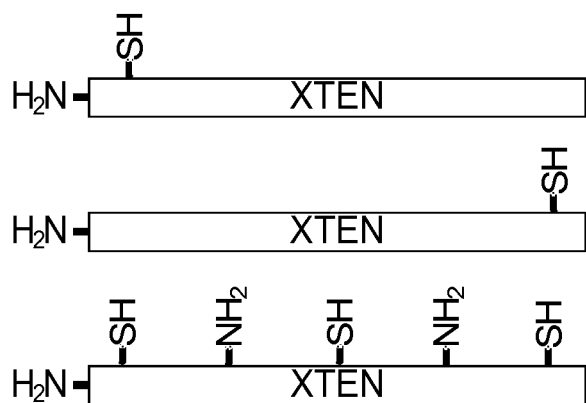


FIG. 1

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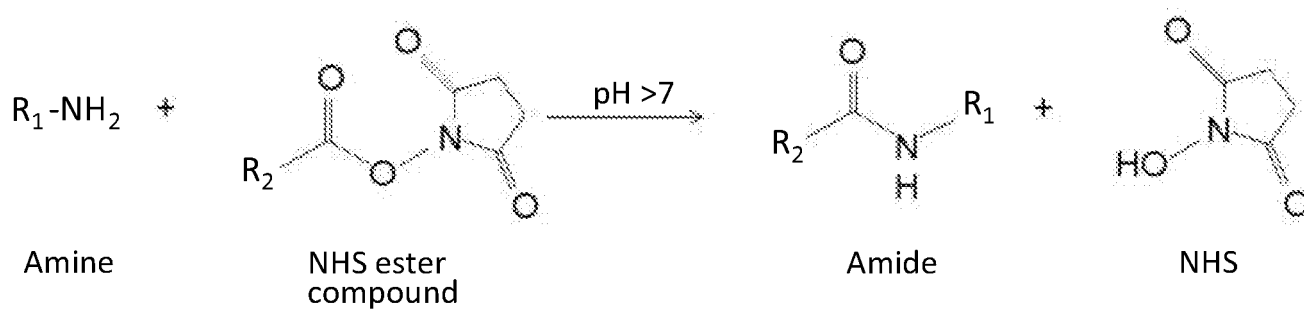


FIG. 2

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FIG. 3A

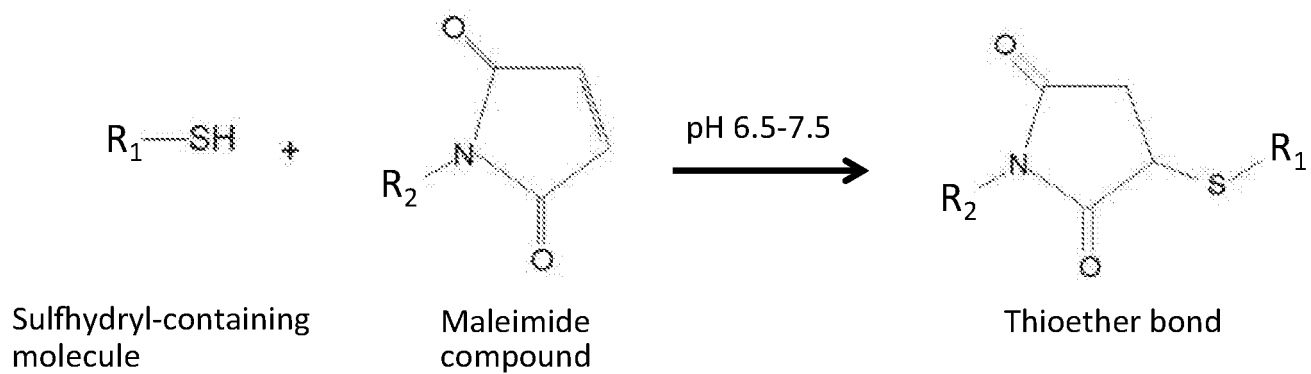


FIG. 3B

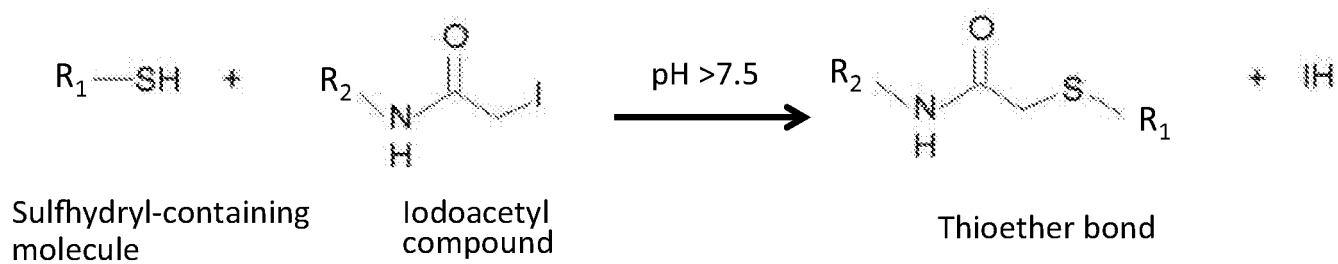


FIG. 3C

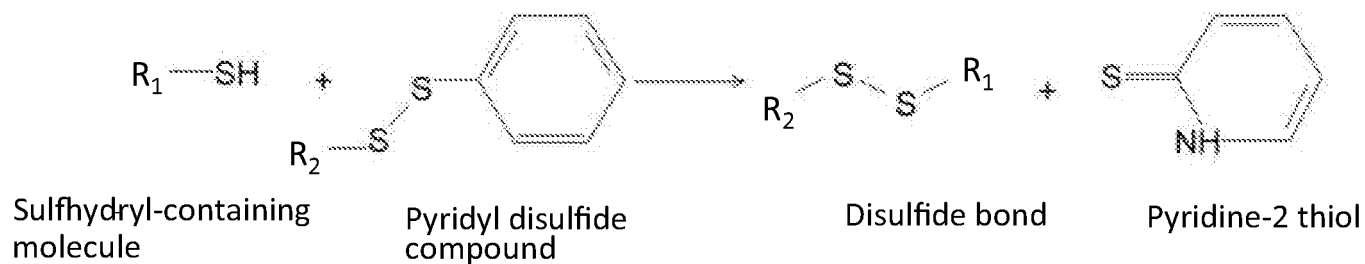


FIG. 3

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FIG. 4A

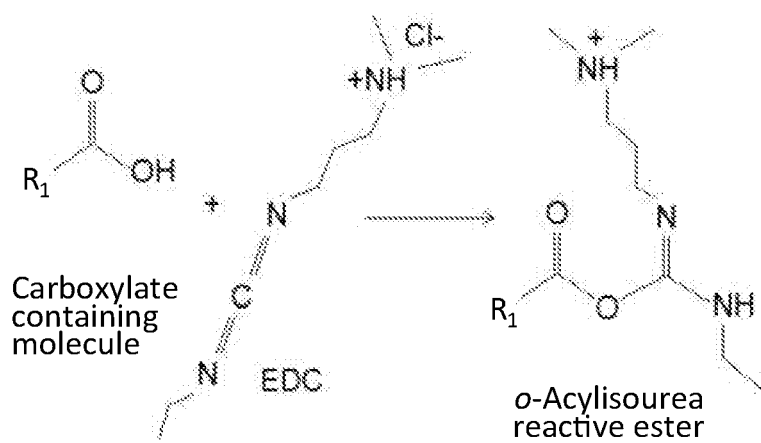


FIG. 4B

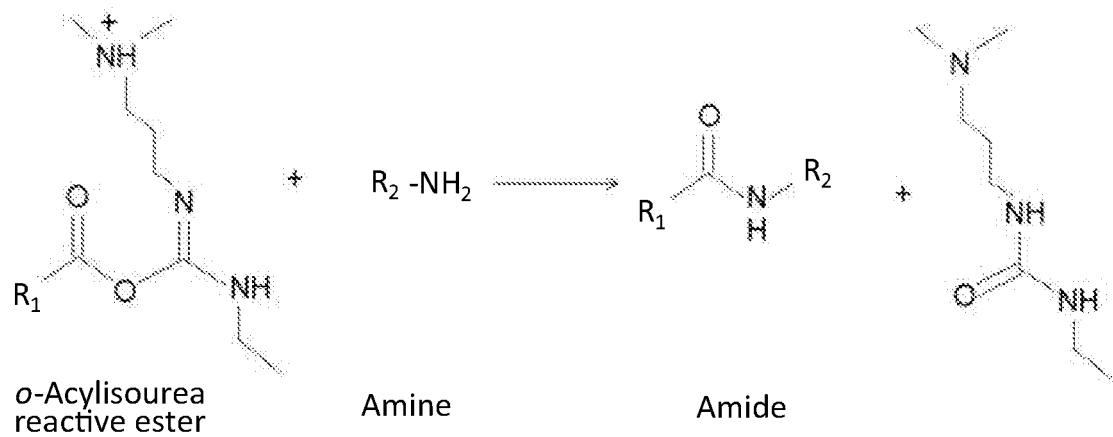


FIG. 4

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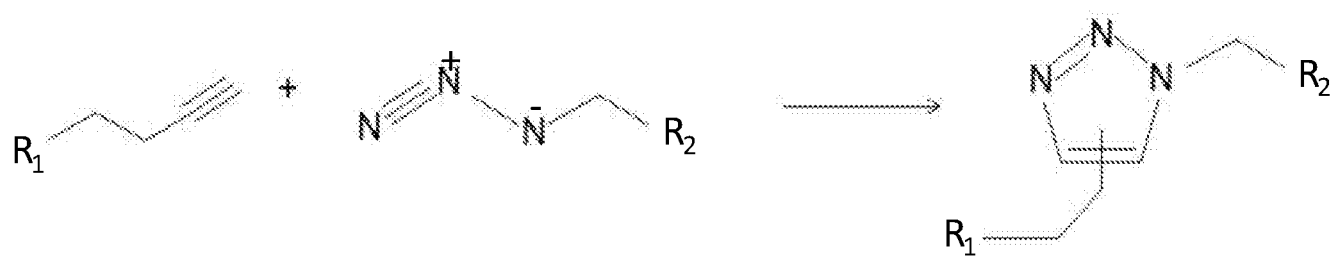


FIG. 5

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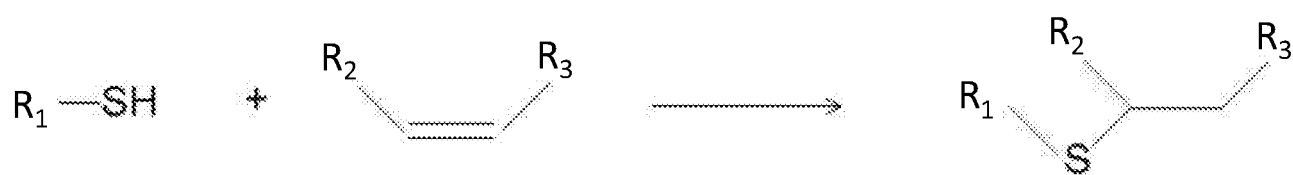


FIG. 6

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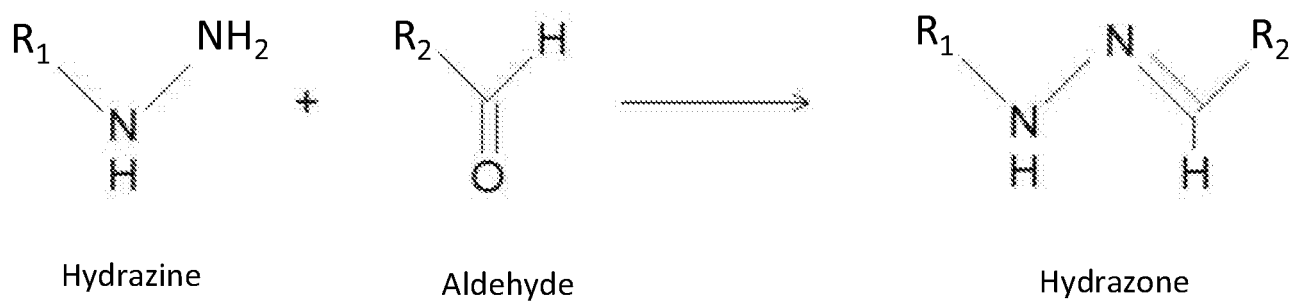
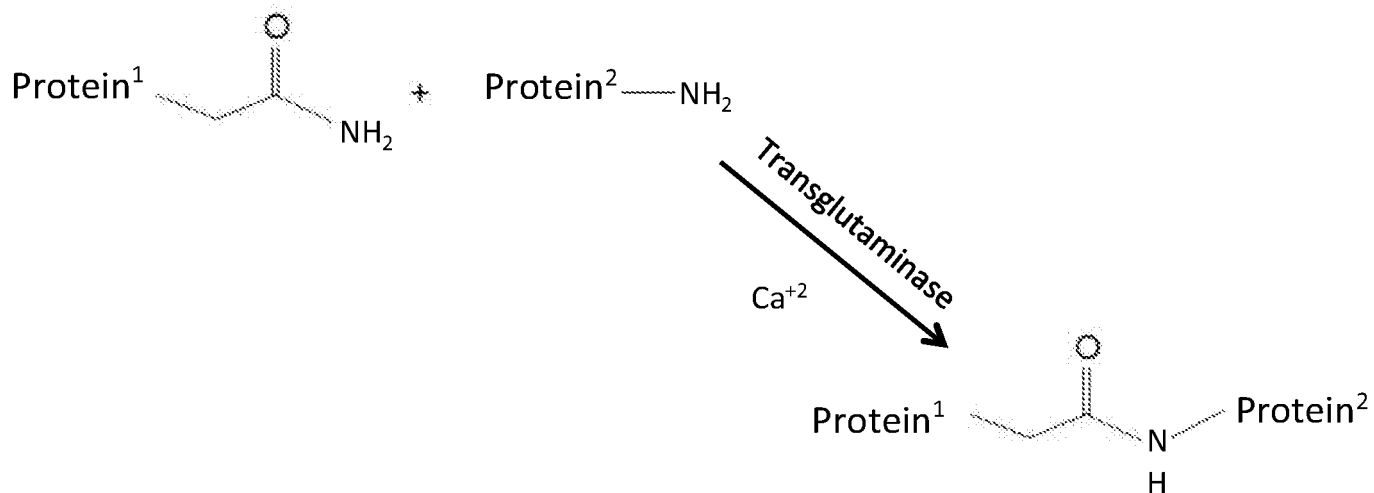
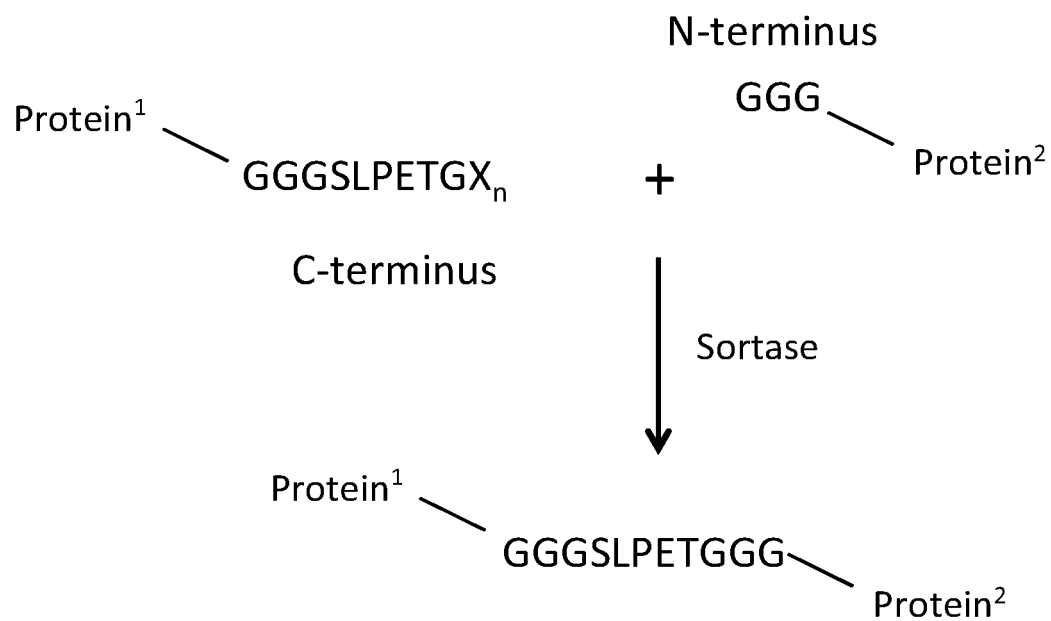


FIG. 7

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FIG. 8A**FIG. 8B****FIG. 8**

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FIG. 9A

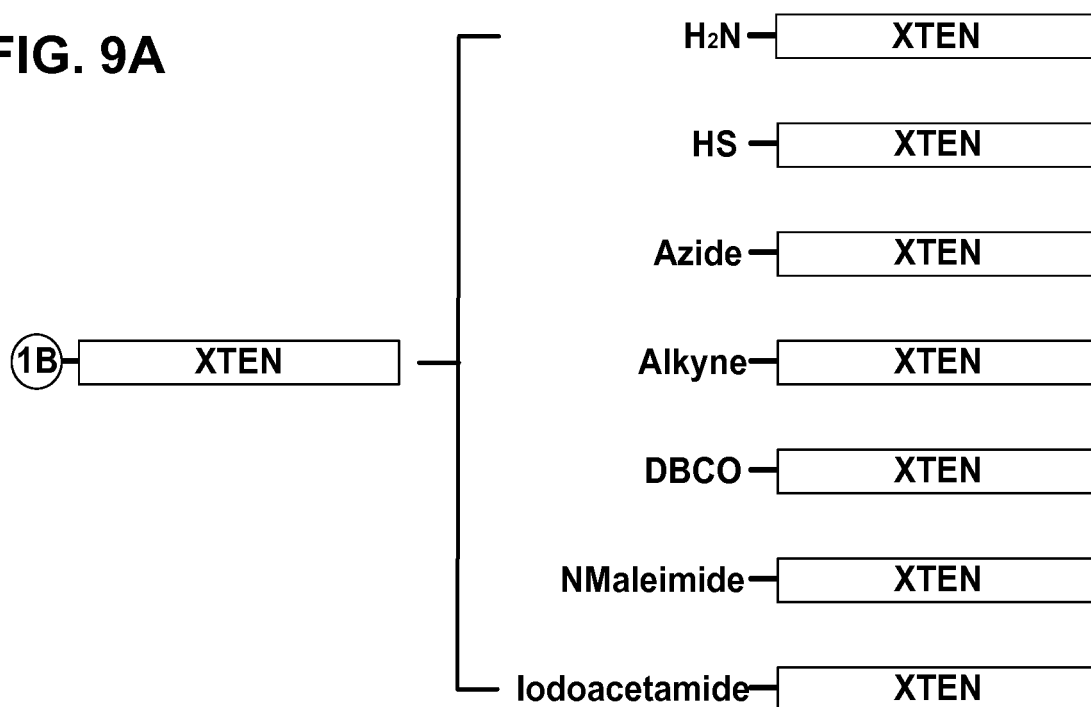


FIG. 9B

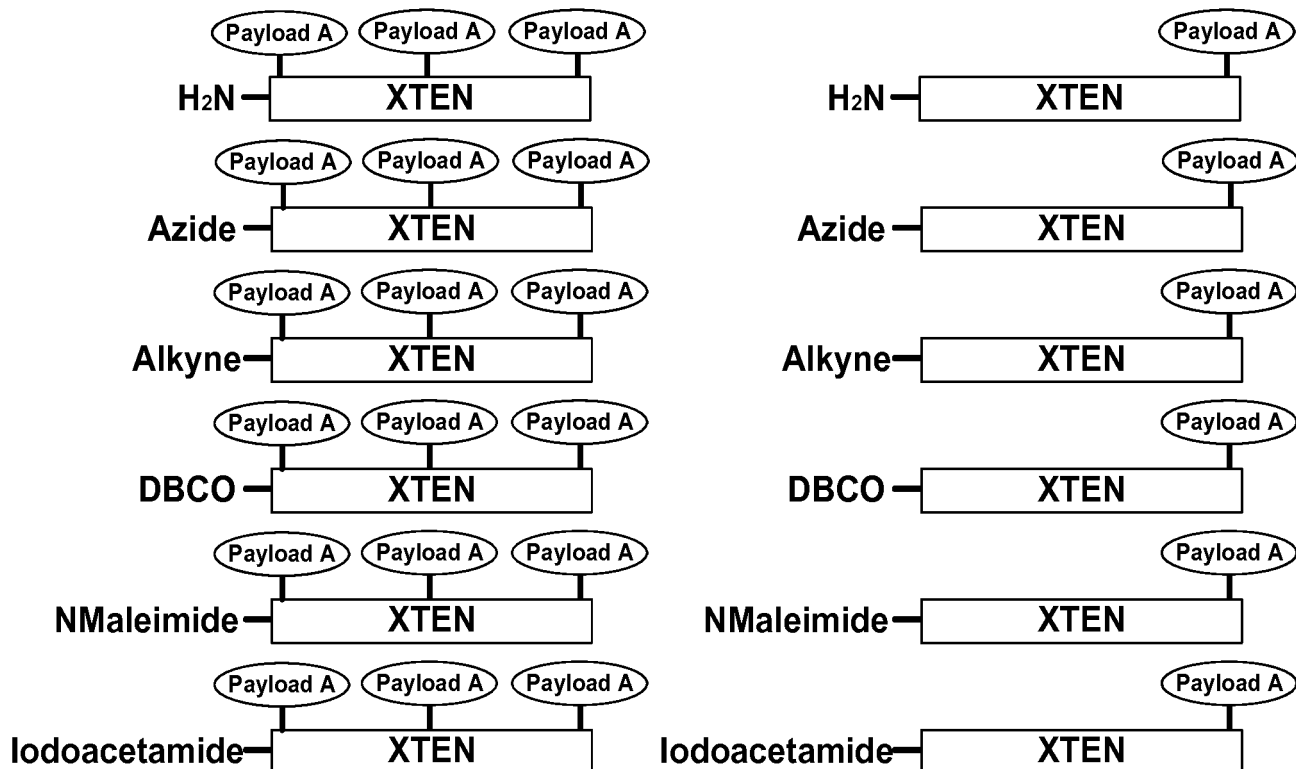


FIG. 9

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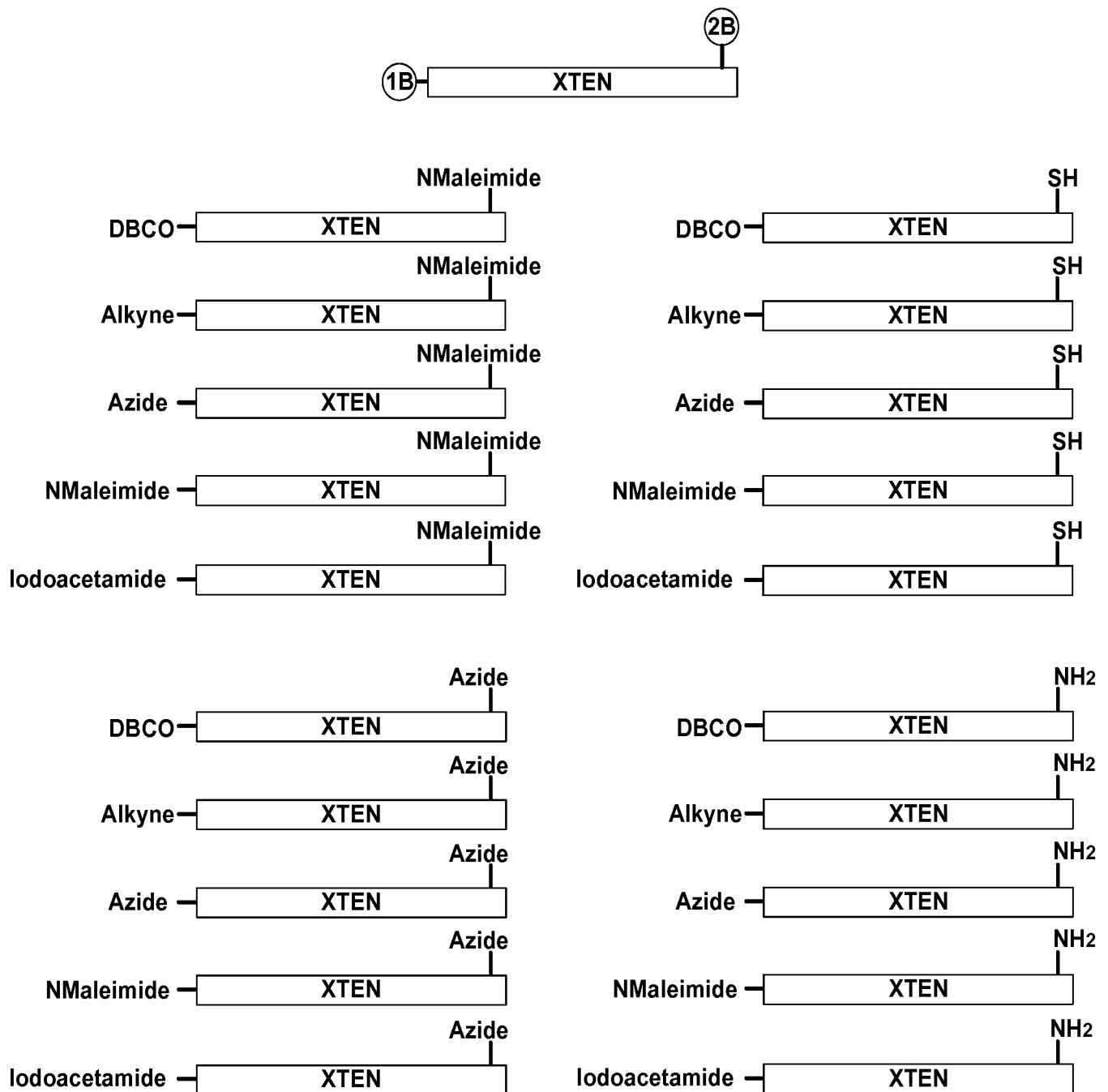


FIG. 10

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FIG. 11A

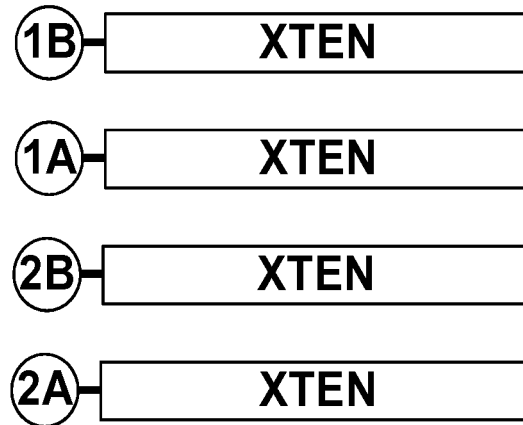
Reactive Groups

FIG. 11B

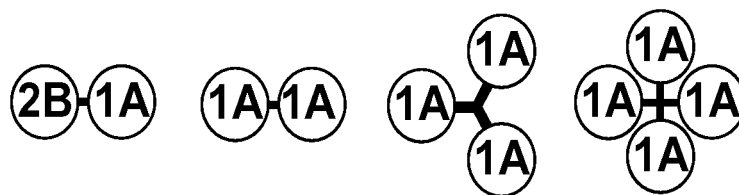
Crosslinkers

FIG. 11C

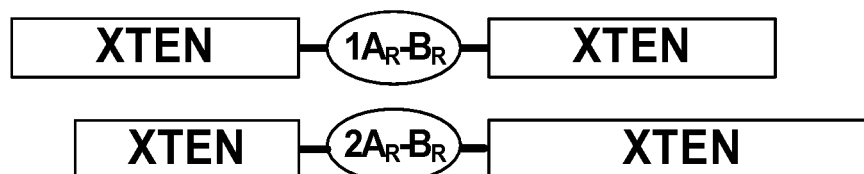
Conjugation Links

FIG. 11

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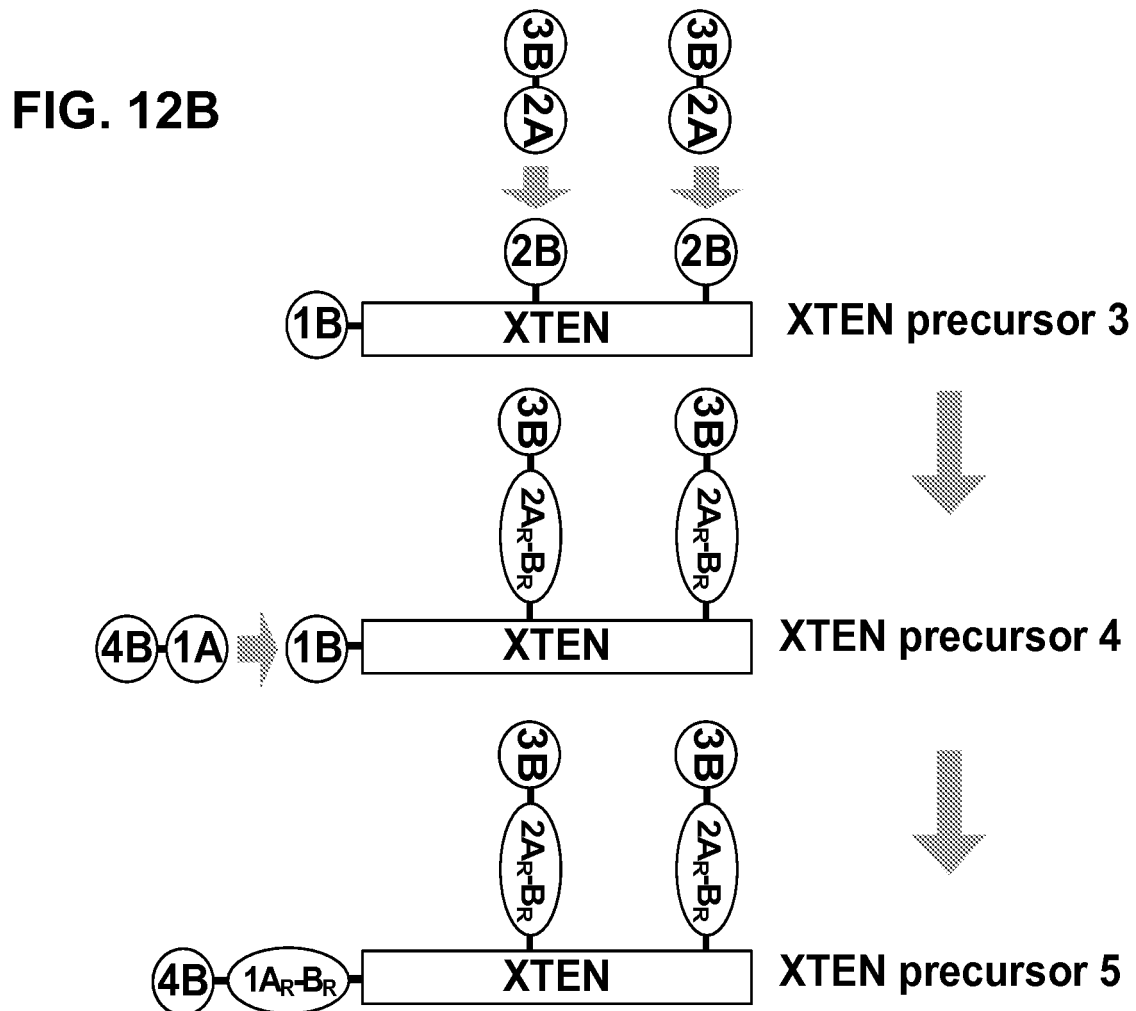
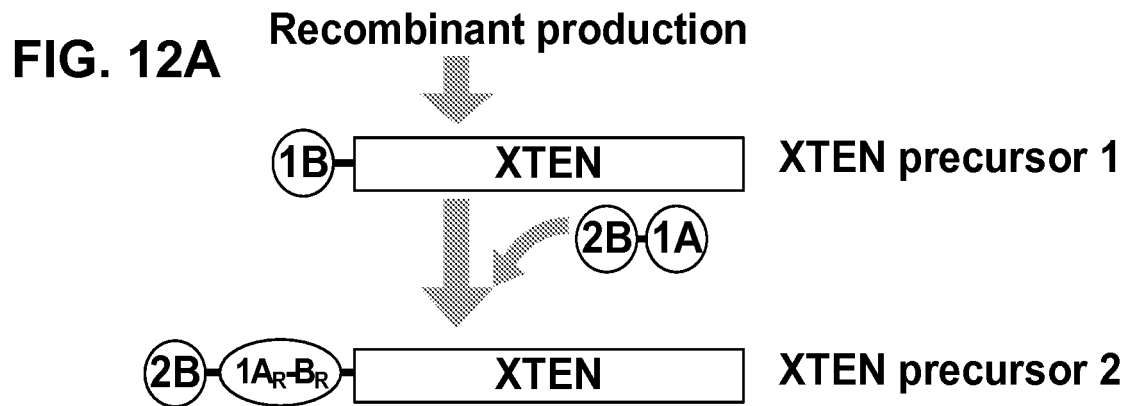
**FIG. 12**

FIG. 13A

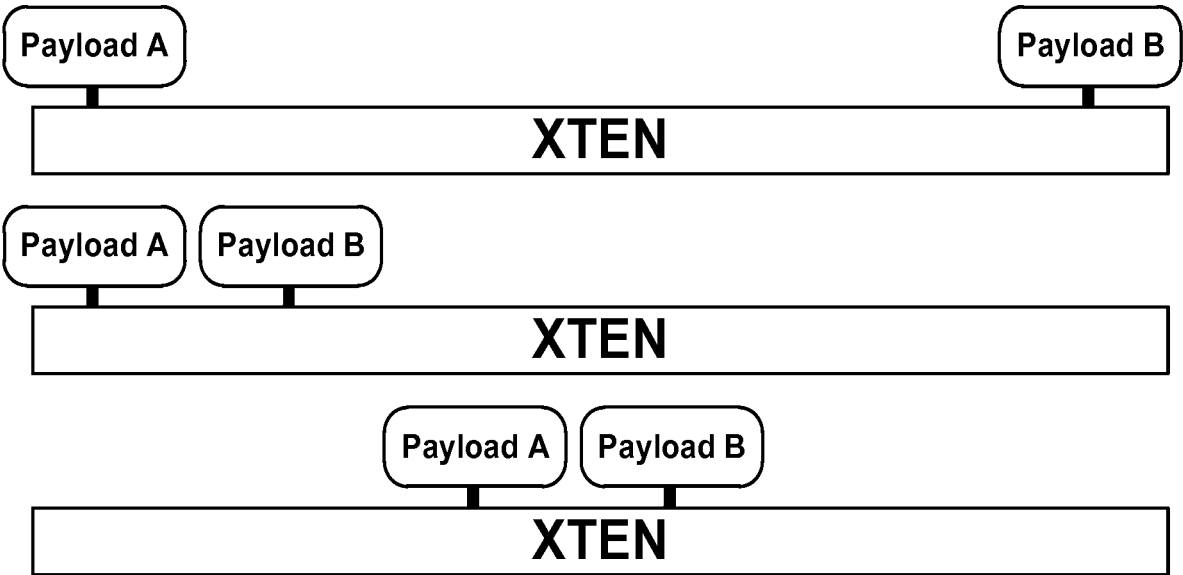


FIG. 13B

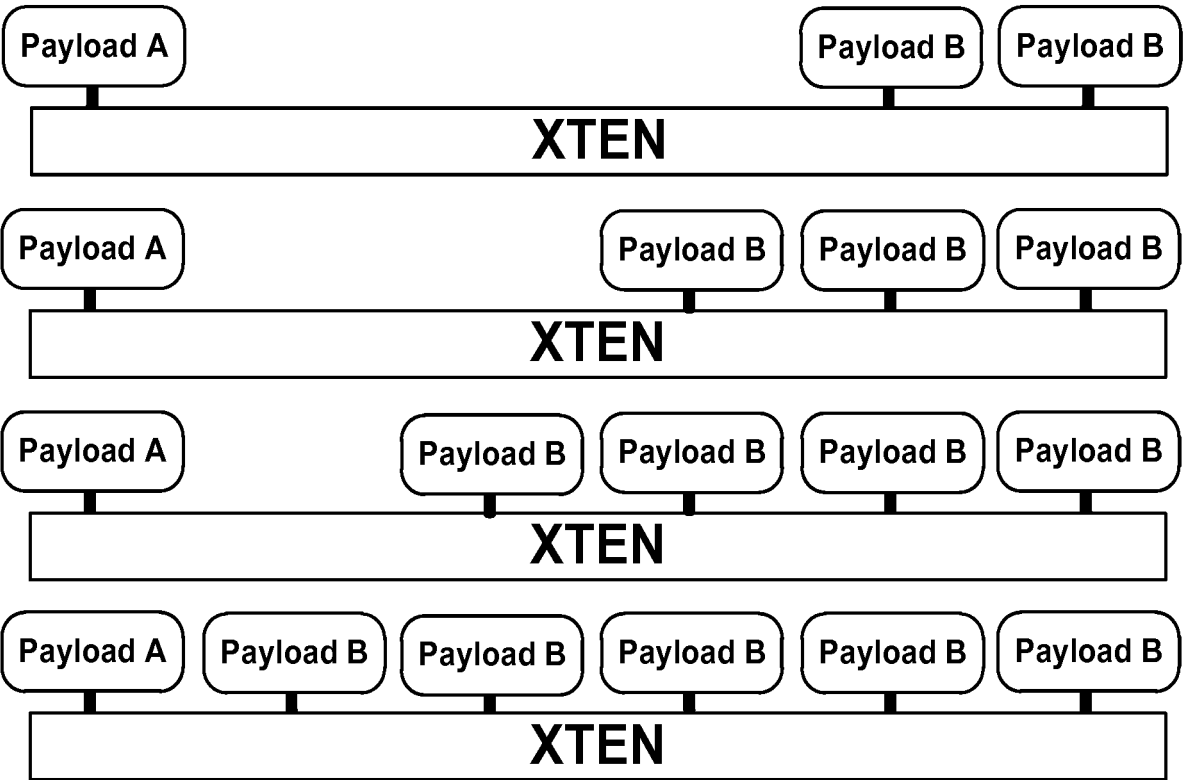


FIG. 13

FIG. 14A

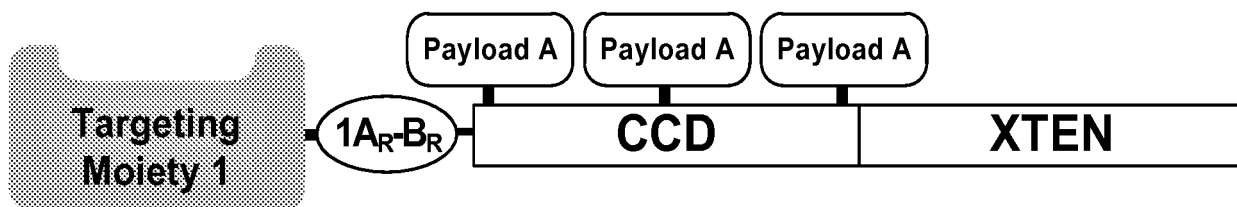


FIG. 14B

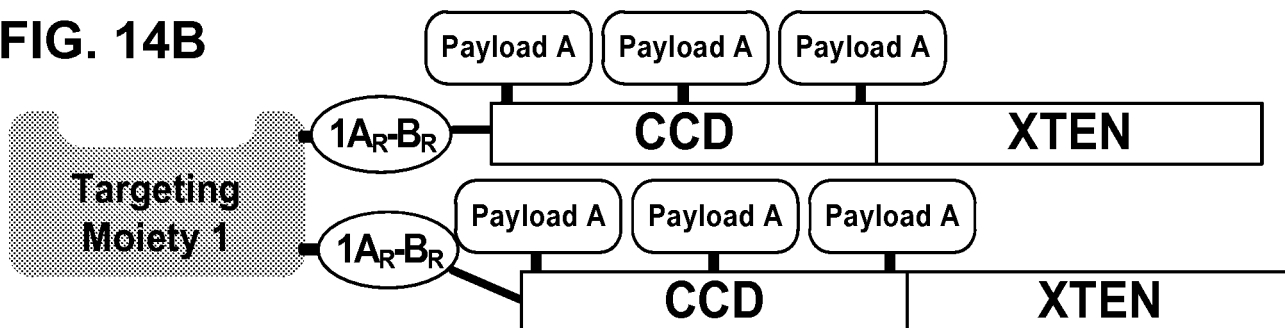


FIG. 14

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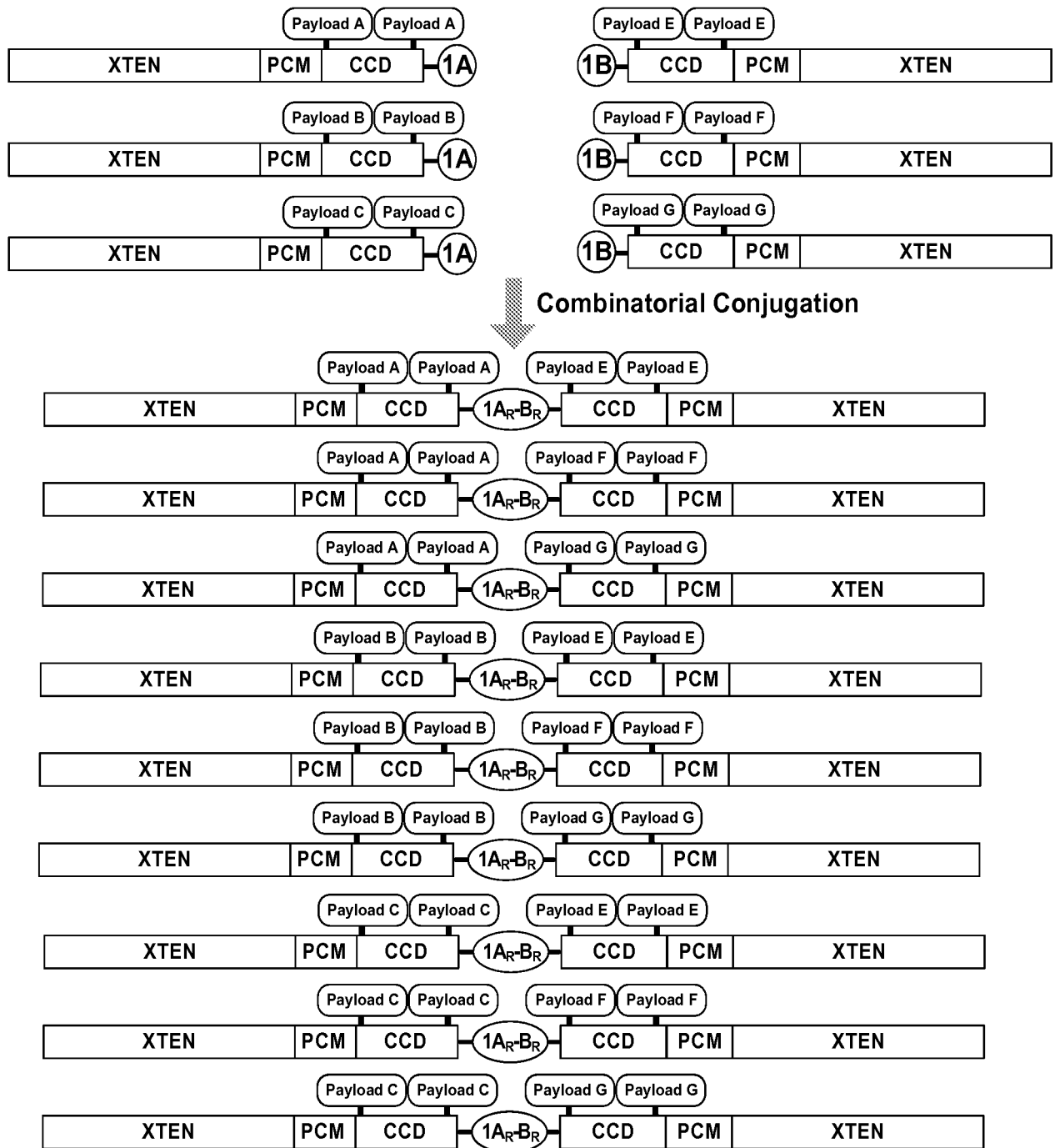


FIG. 15

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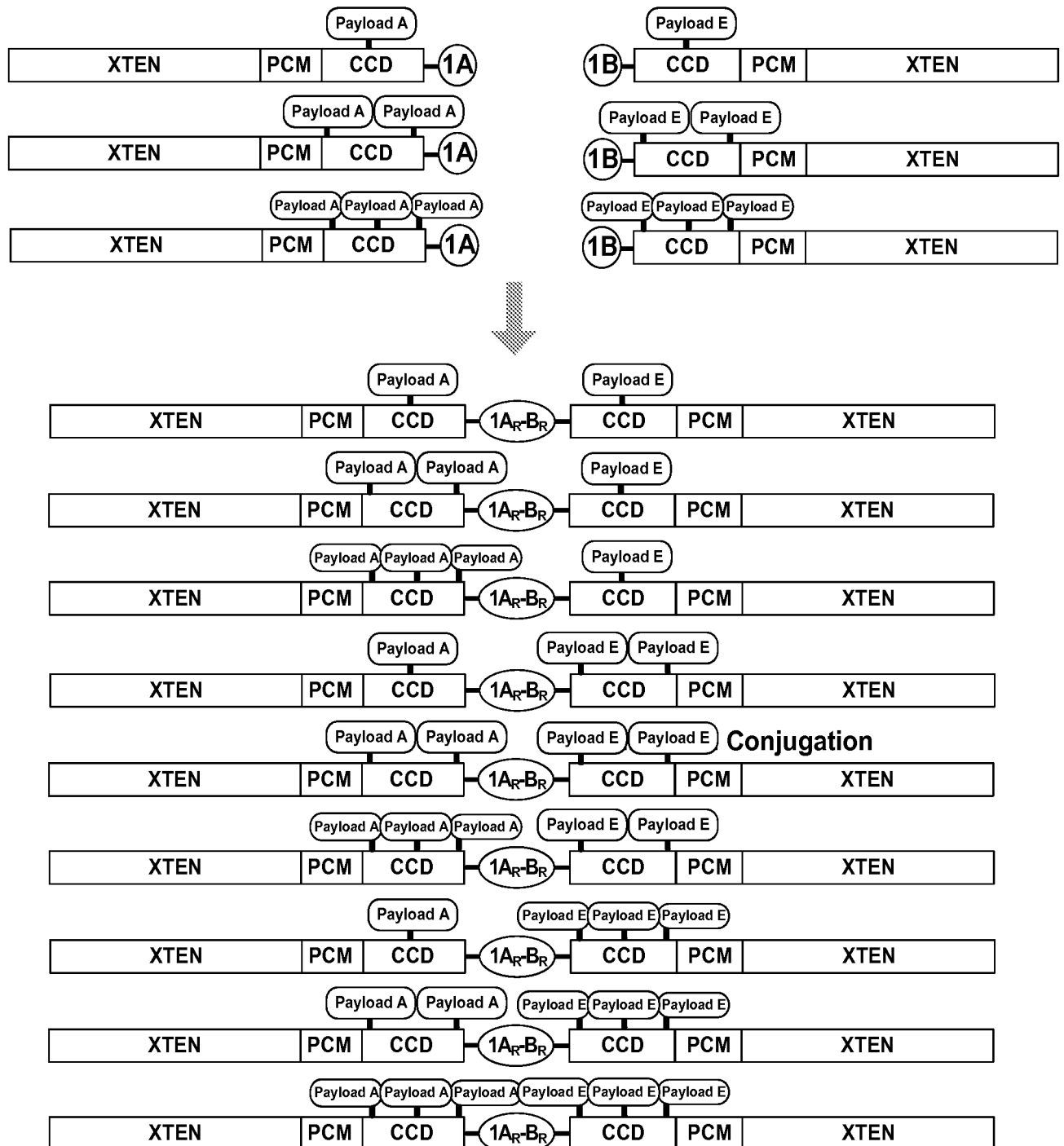


FIG. 16

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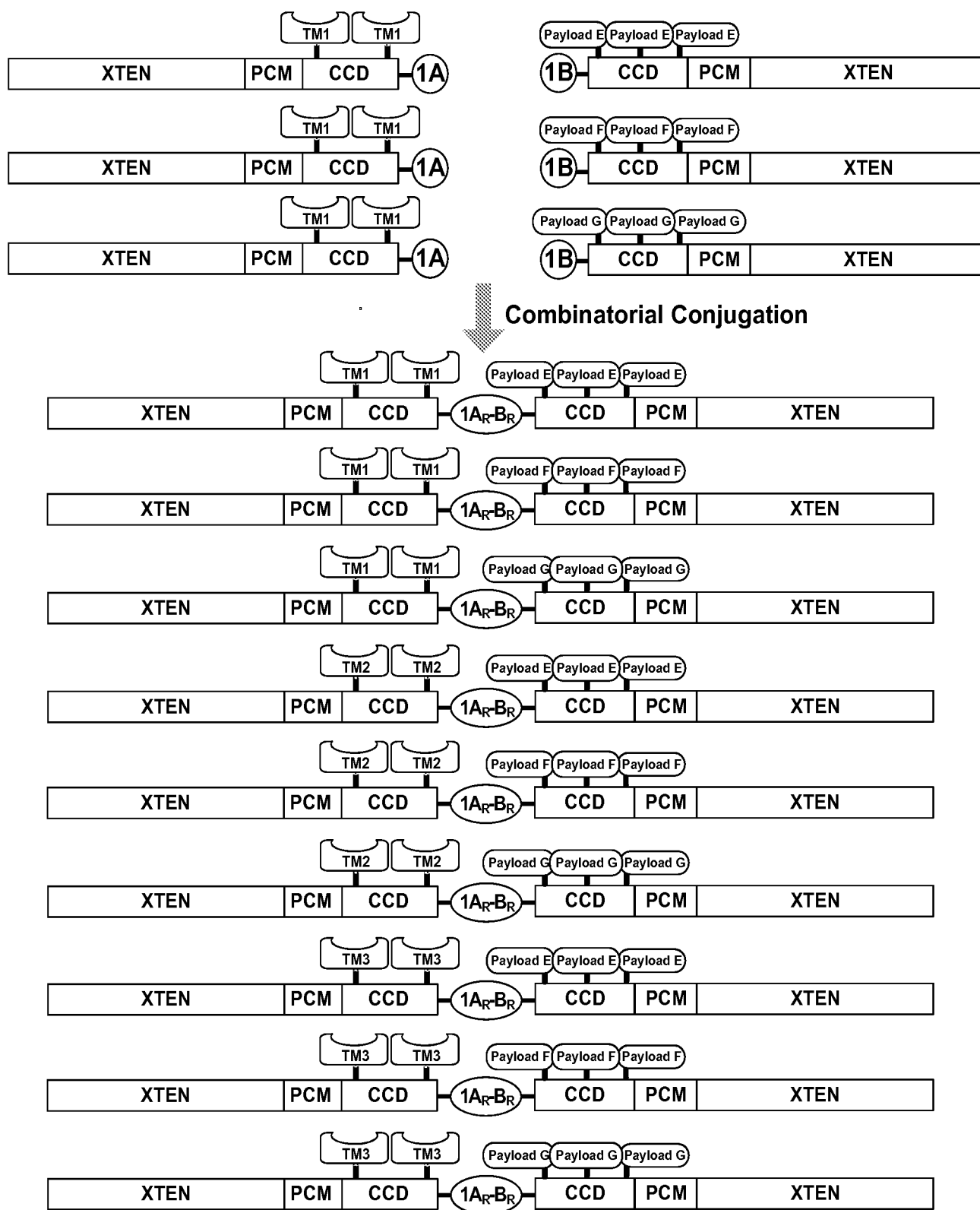


FIG. 17

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FIG. 18A

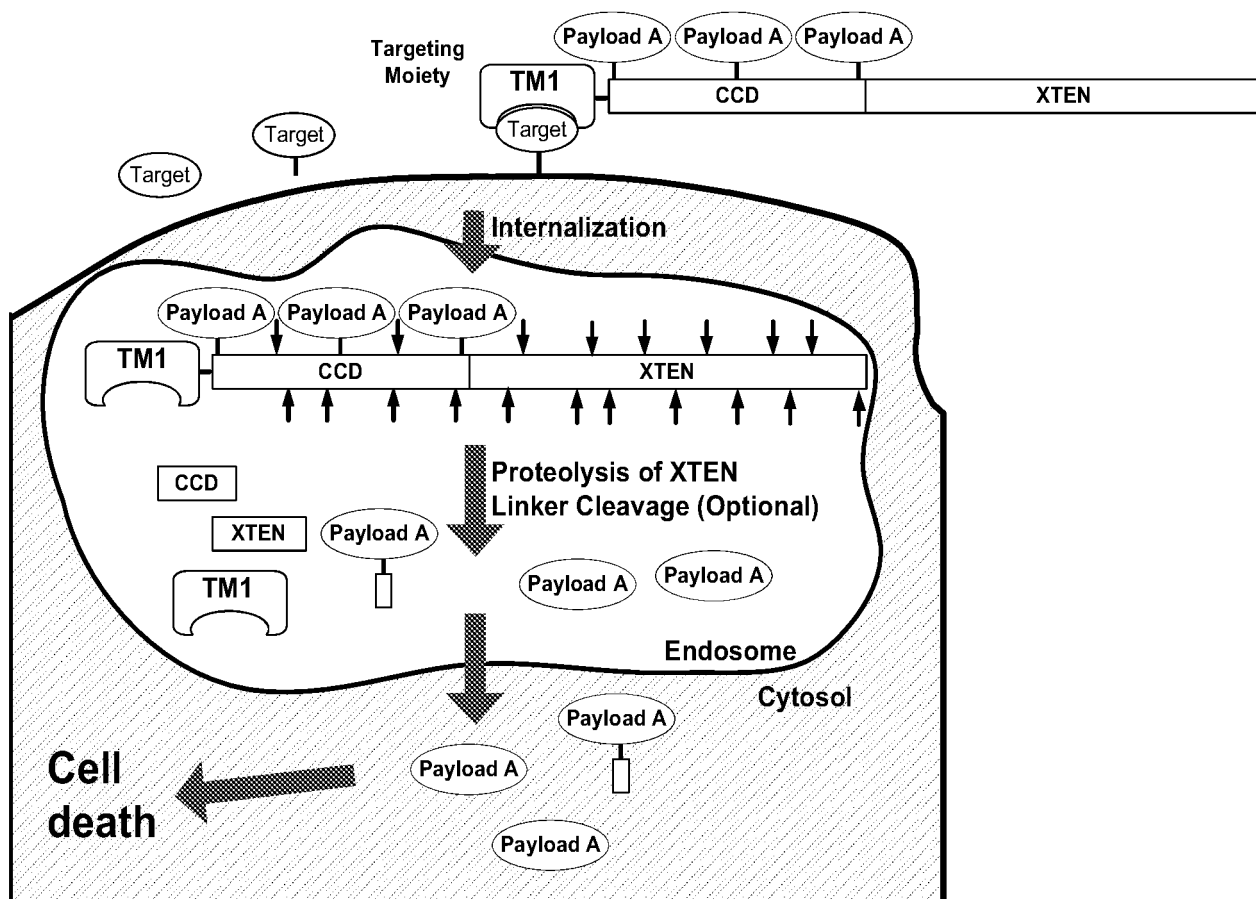


FIG. 18

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FIG. 18B

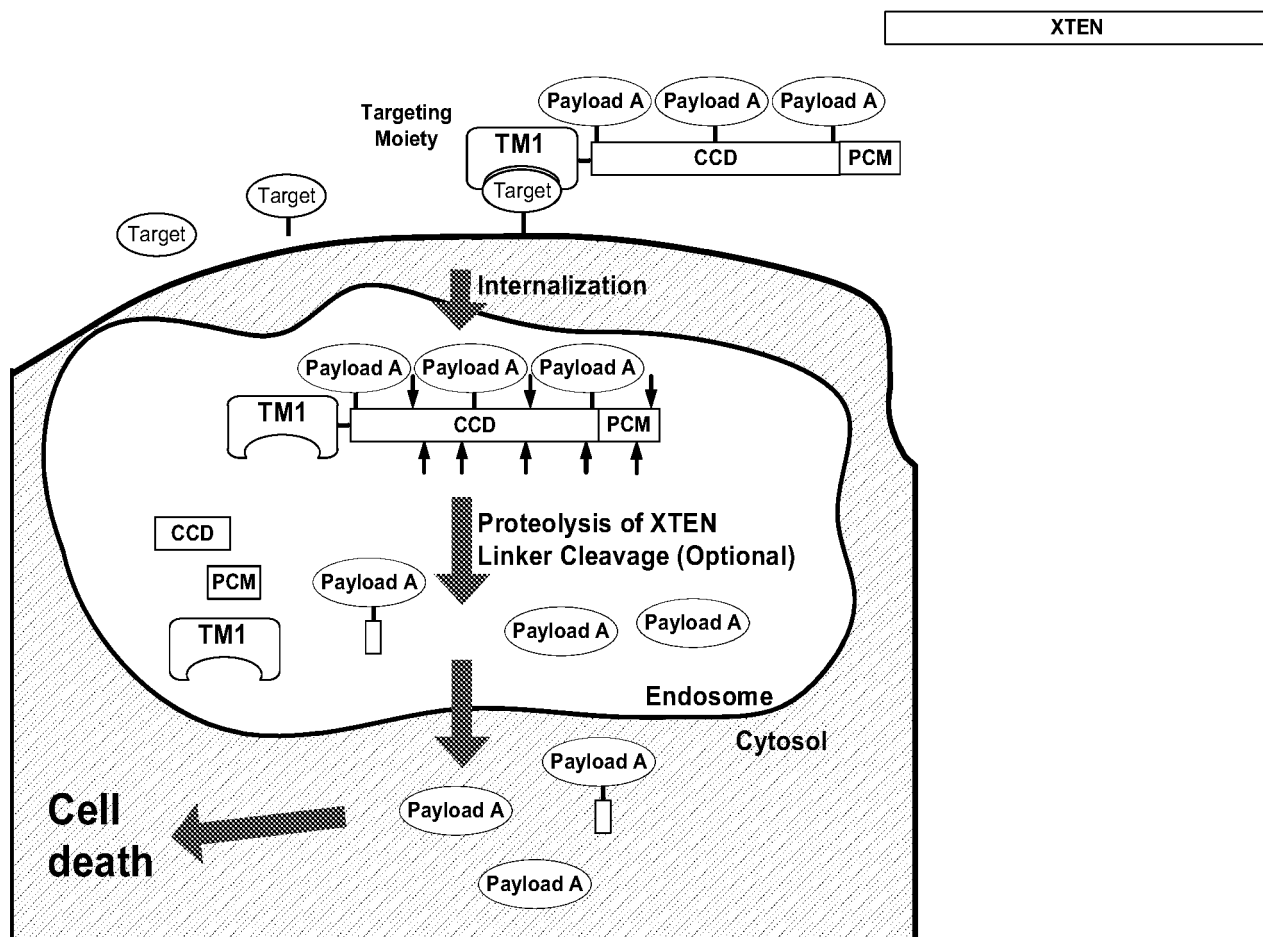


FIG. 18

FIG. 19A

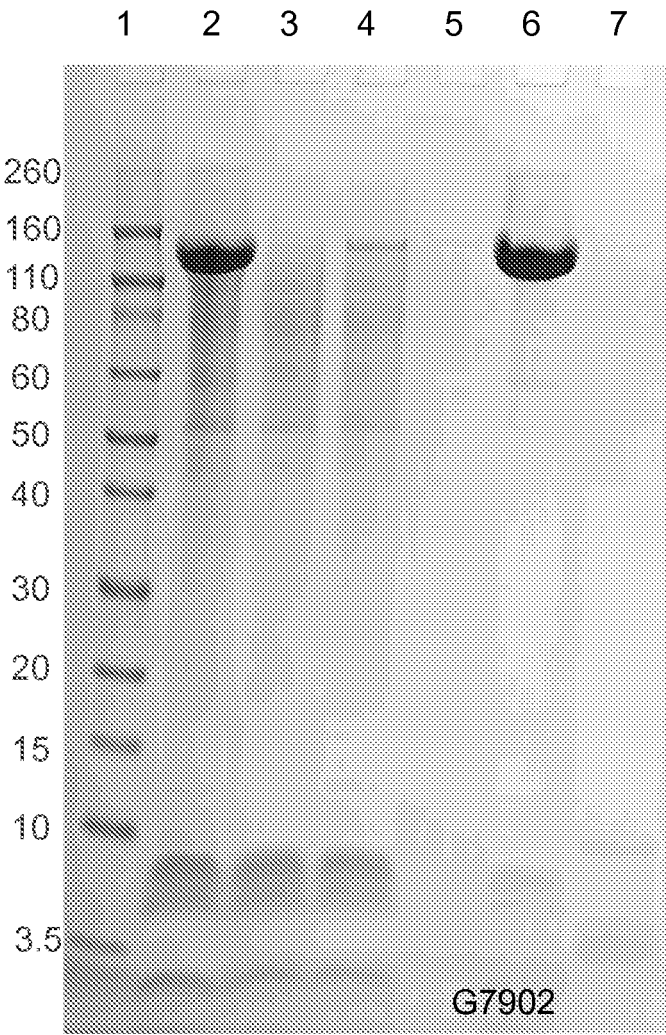


FIG. 19

FIG. 19B

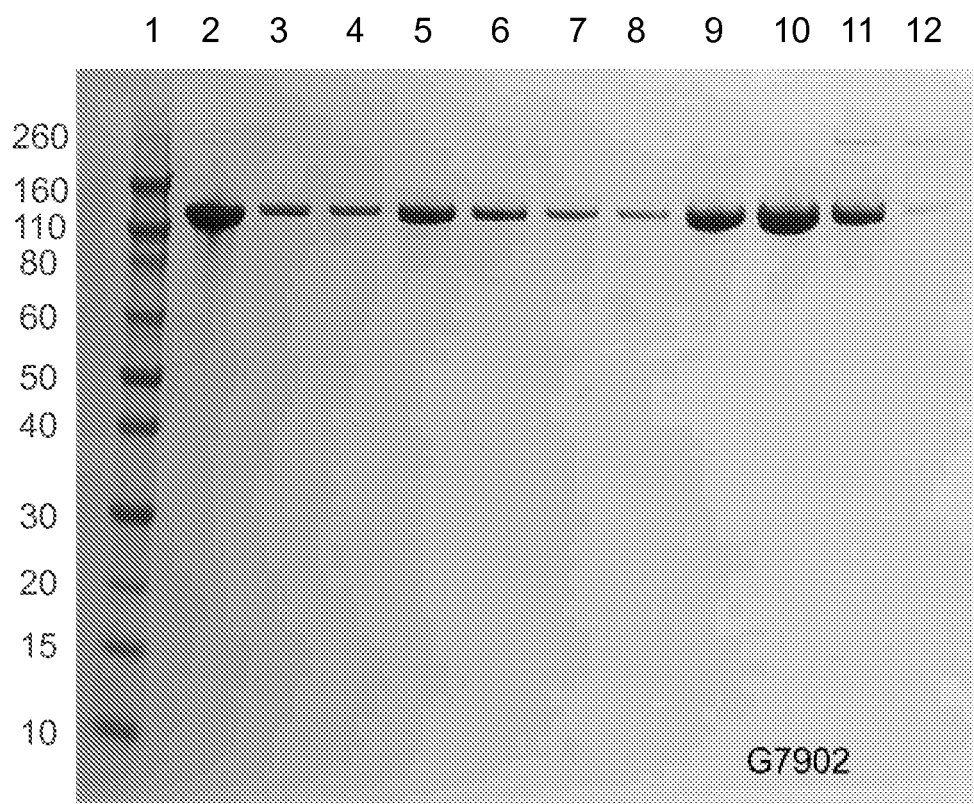


FIG. 19

FIG. 20A

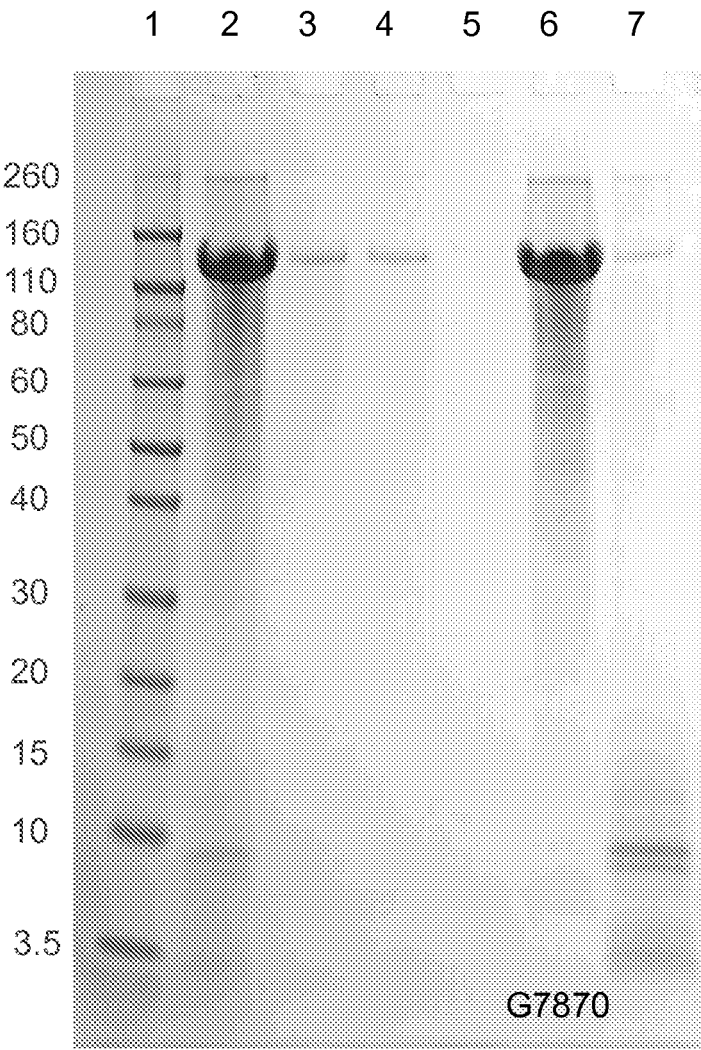


FIG. 20

FIG. 20B

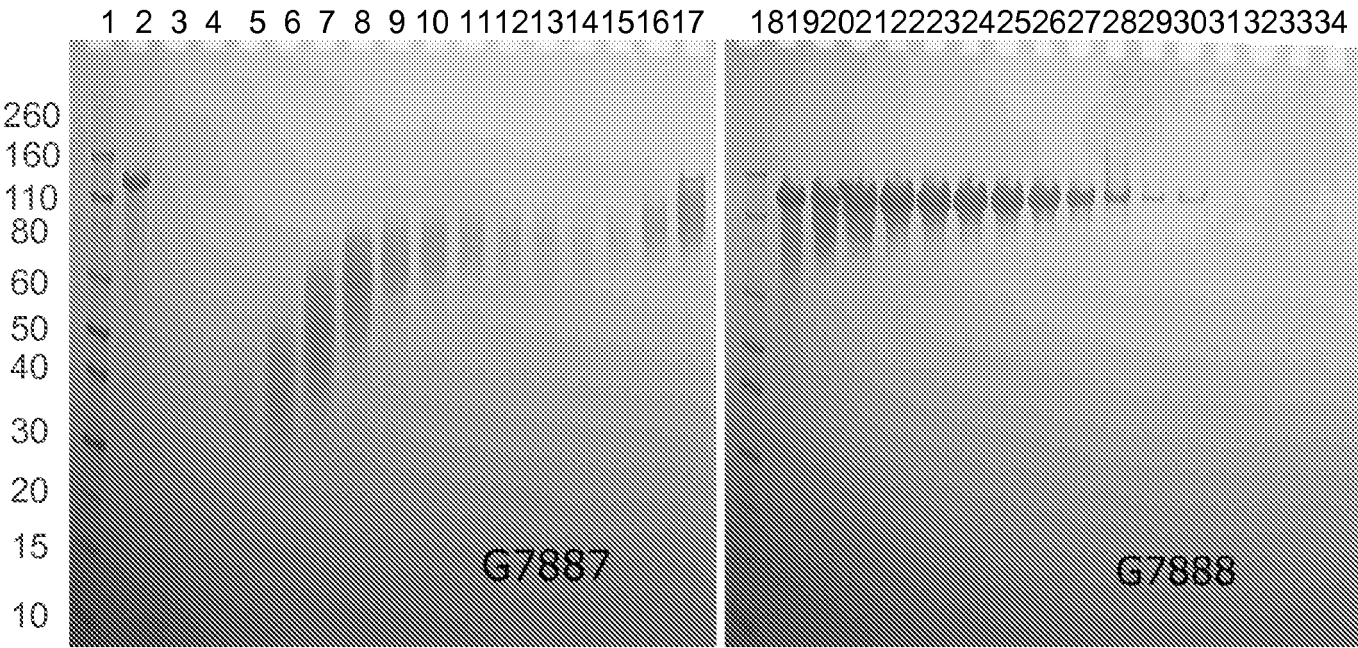


FIG. 20

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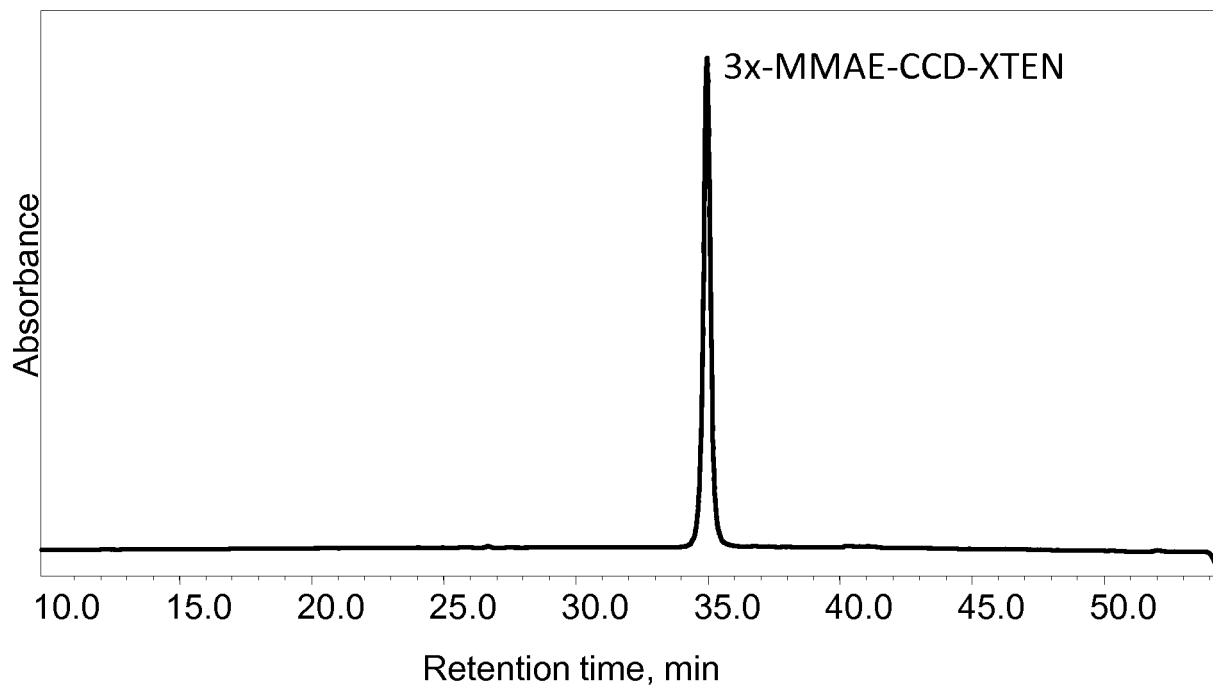
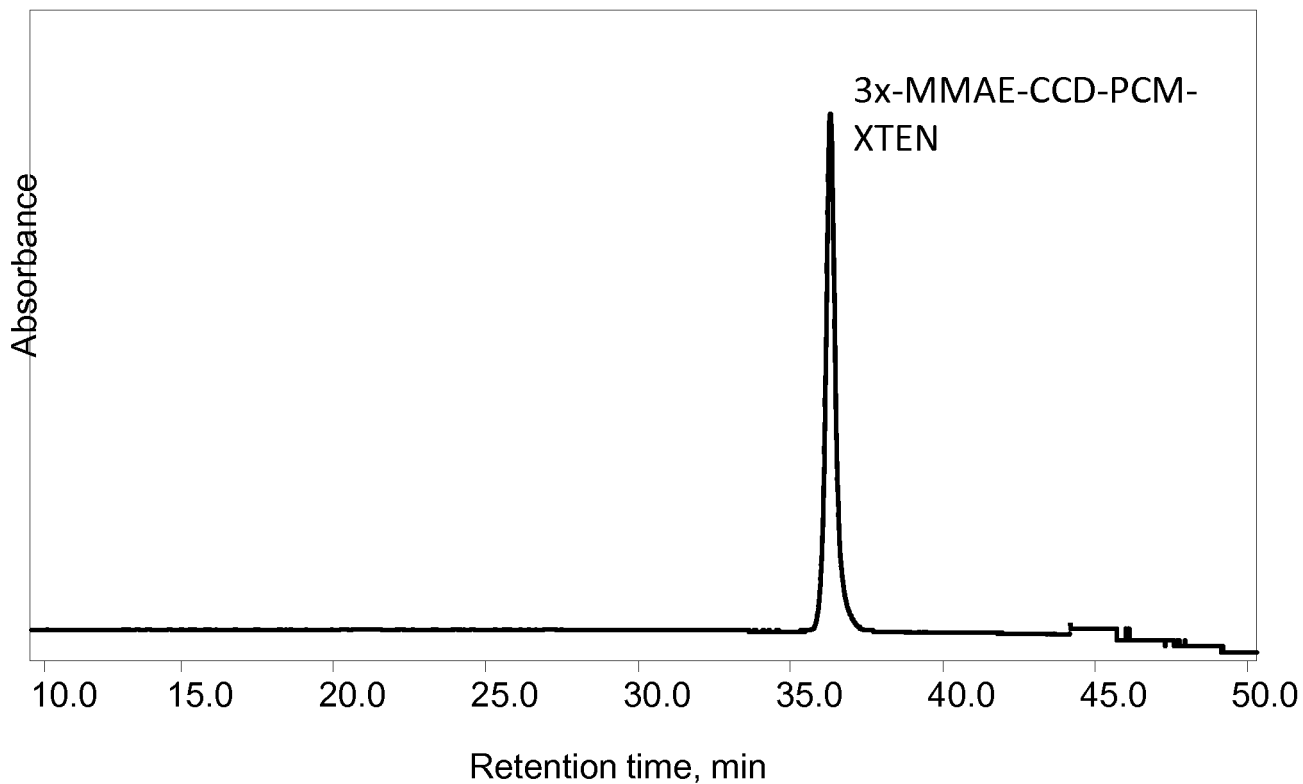
FIG. 21A**FIG. 21B****FIG. 21**

FIG. 22A

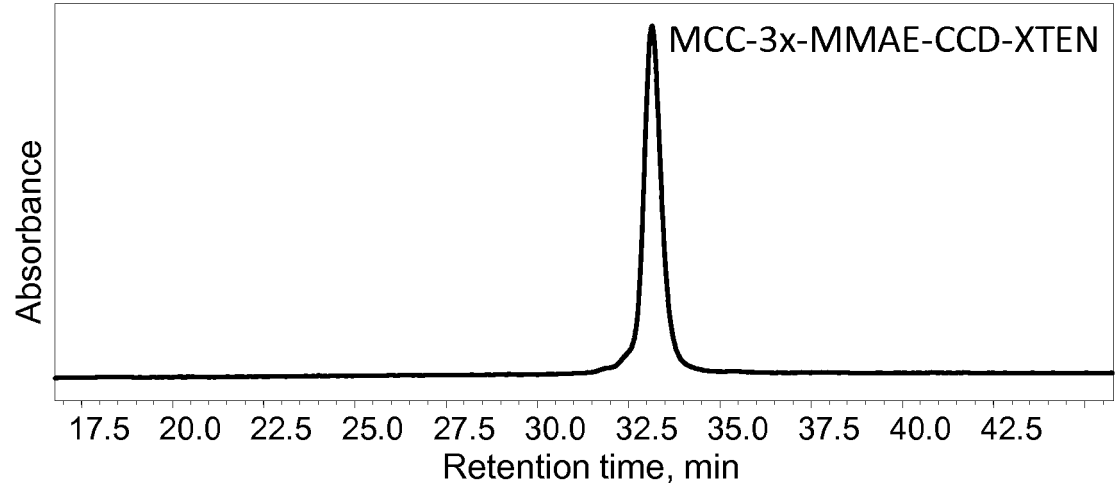


FIG. 22B

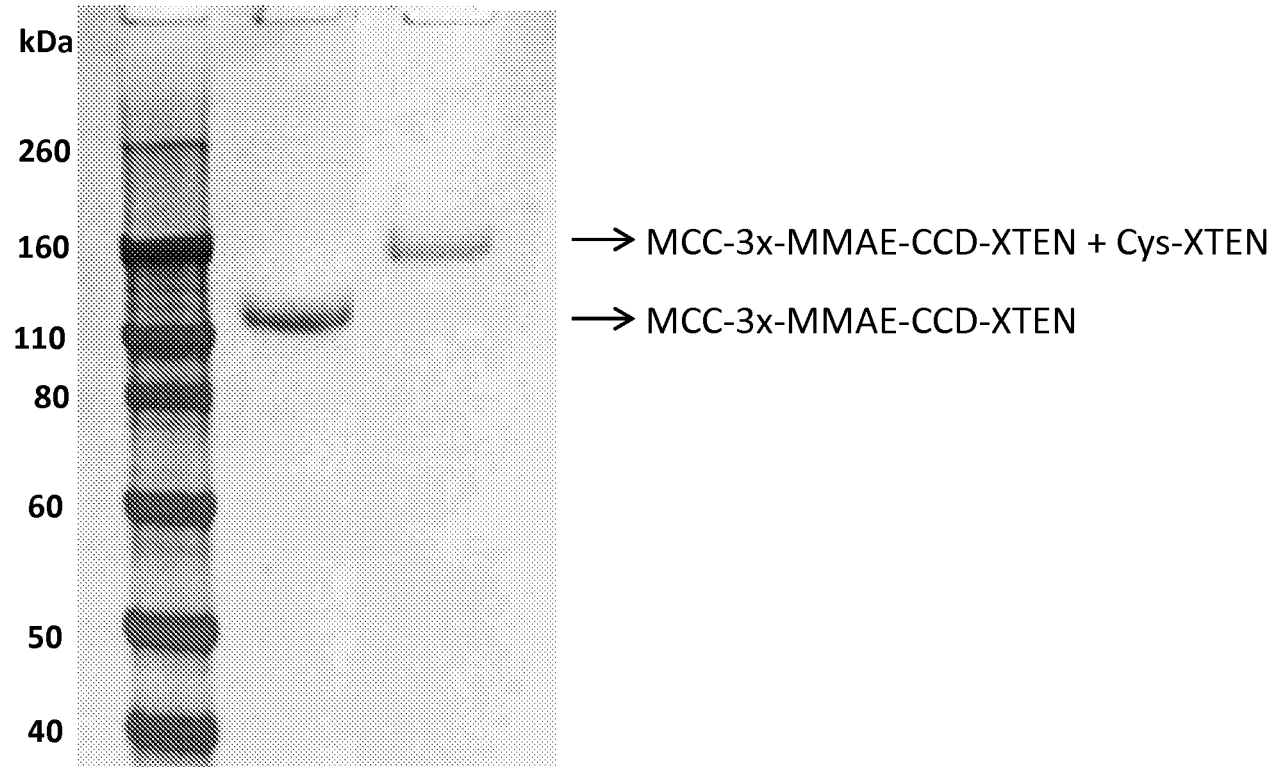
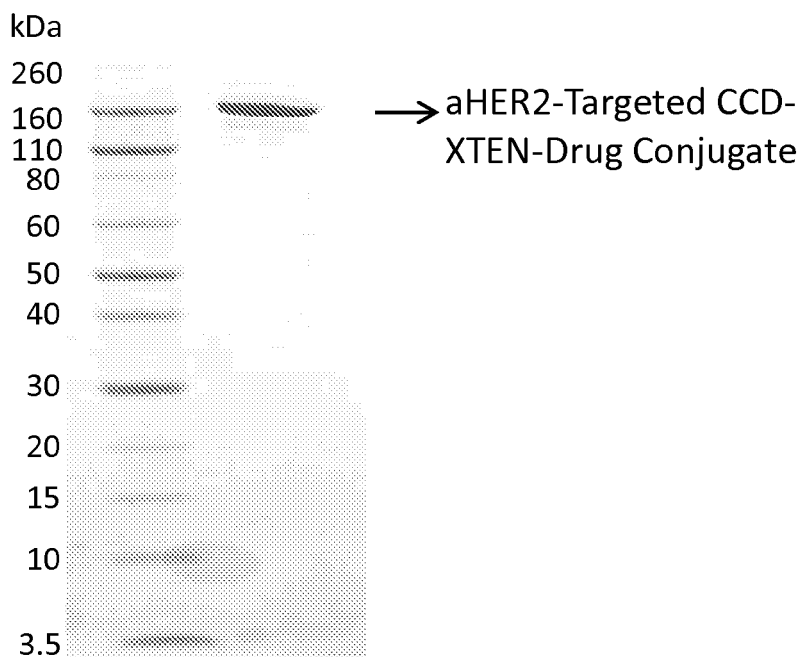
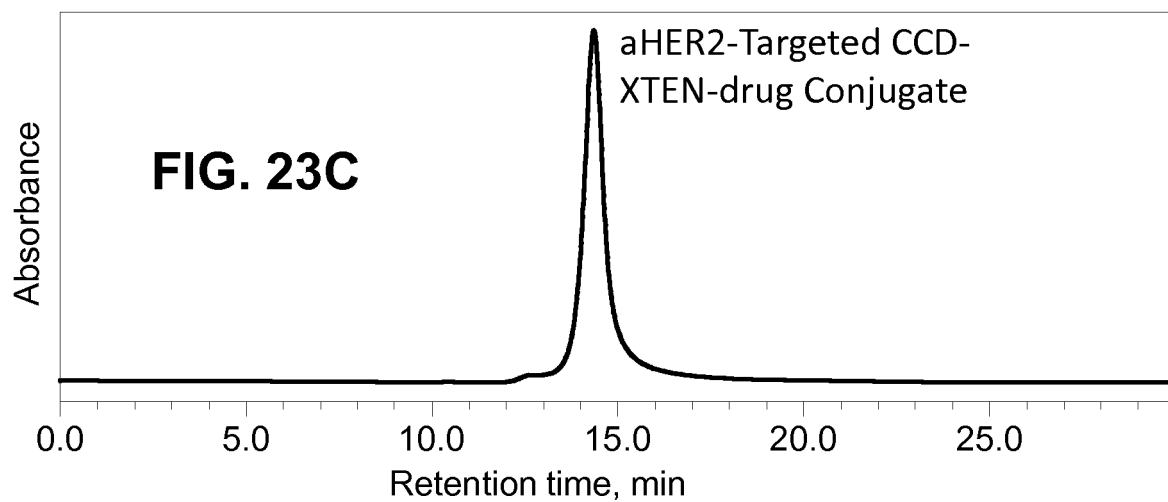
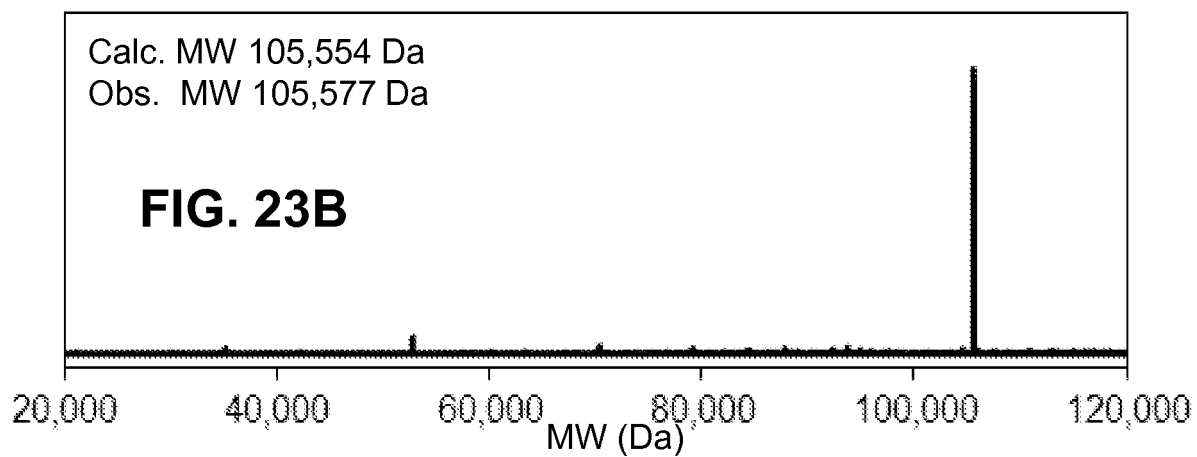


FIG. 22

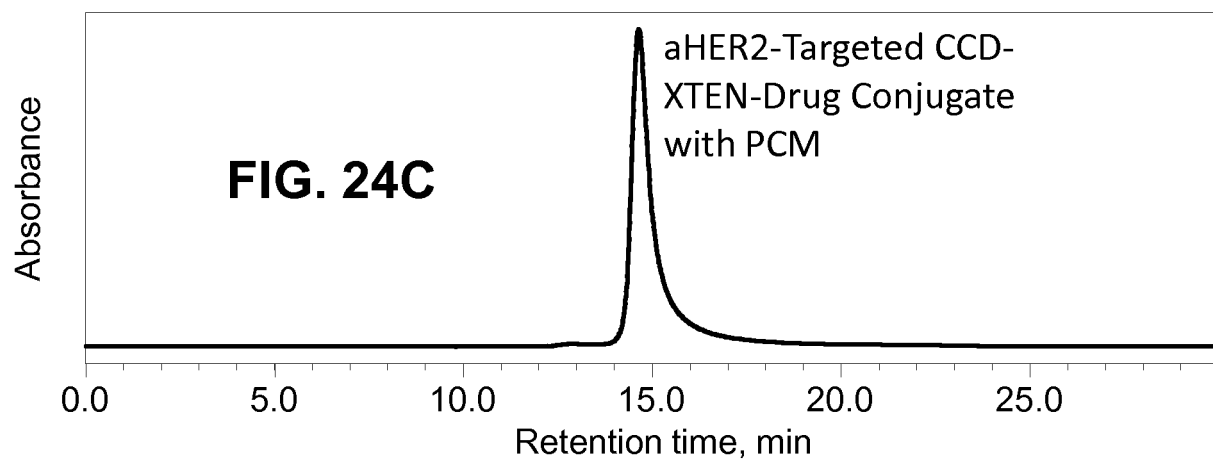
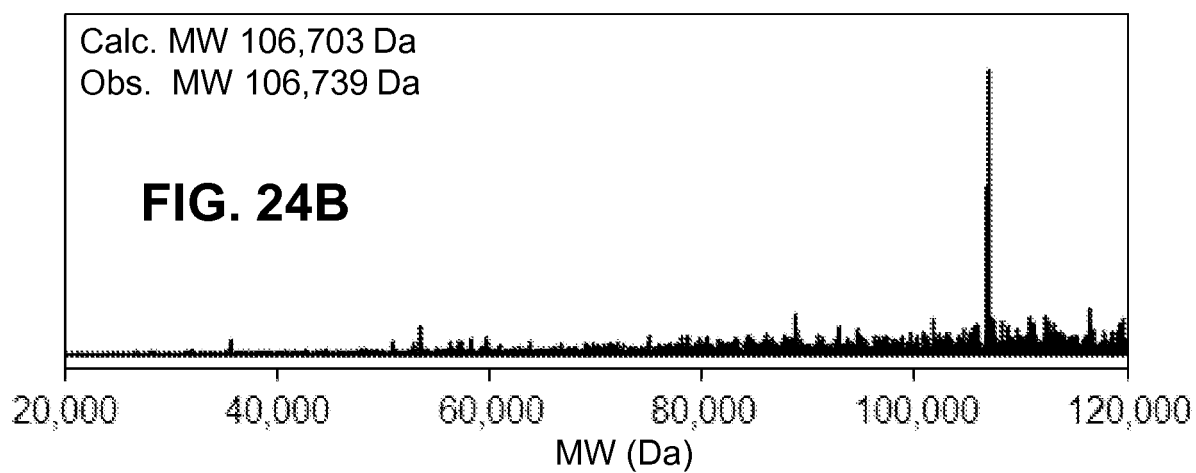
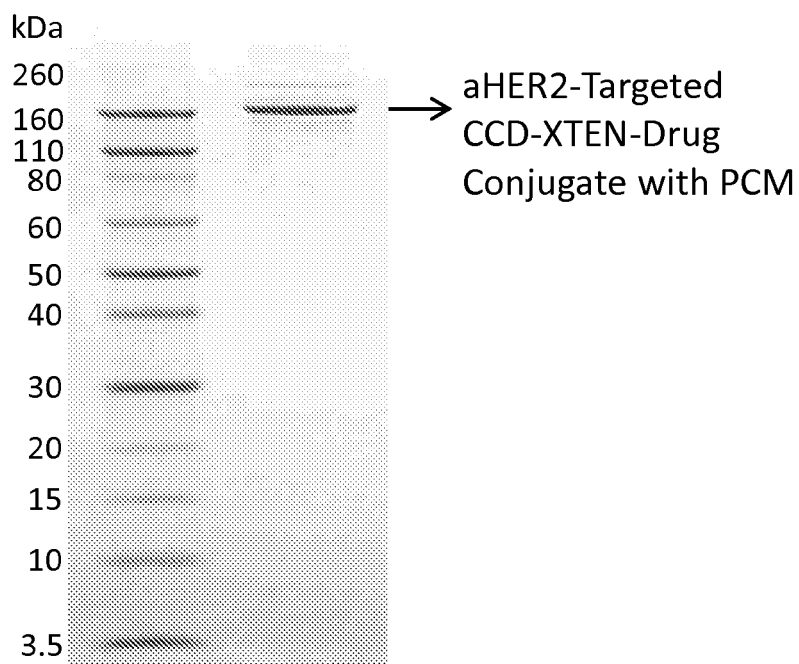
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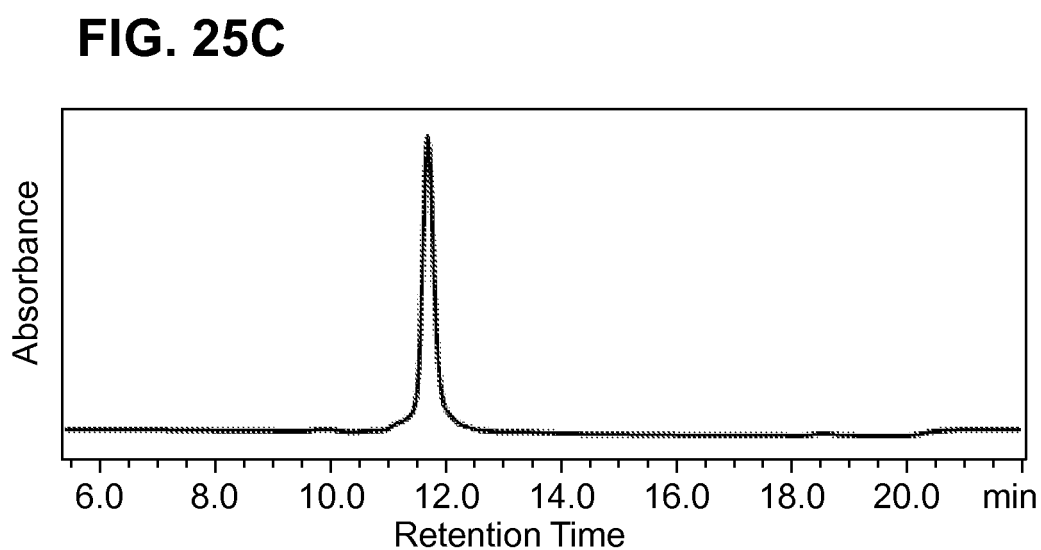
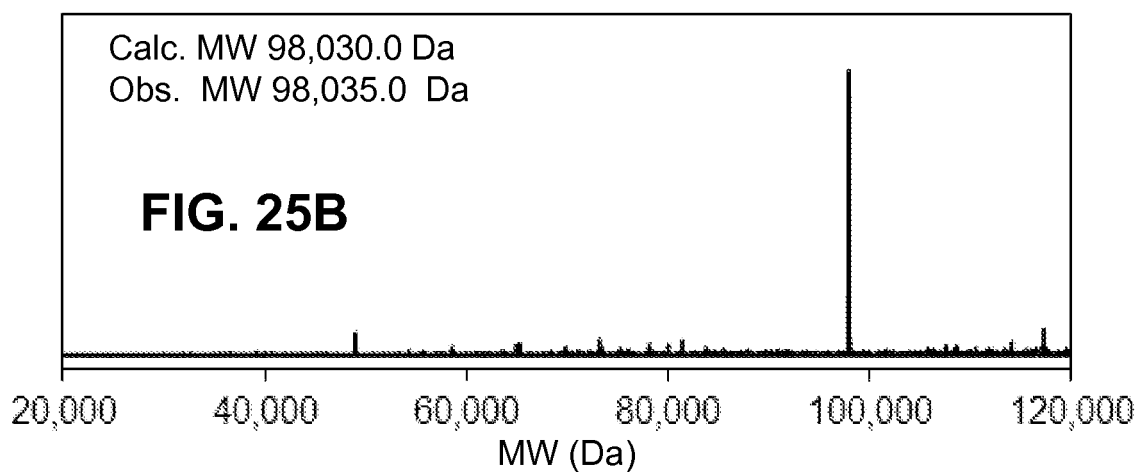
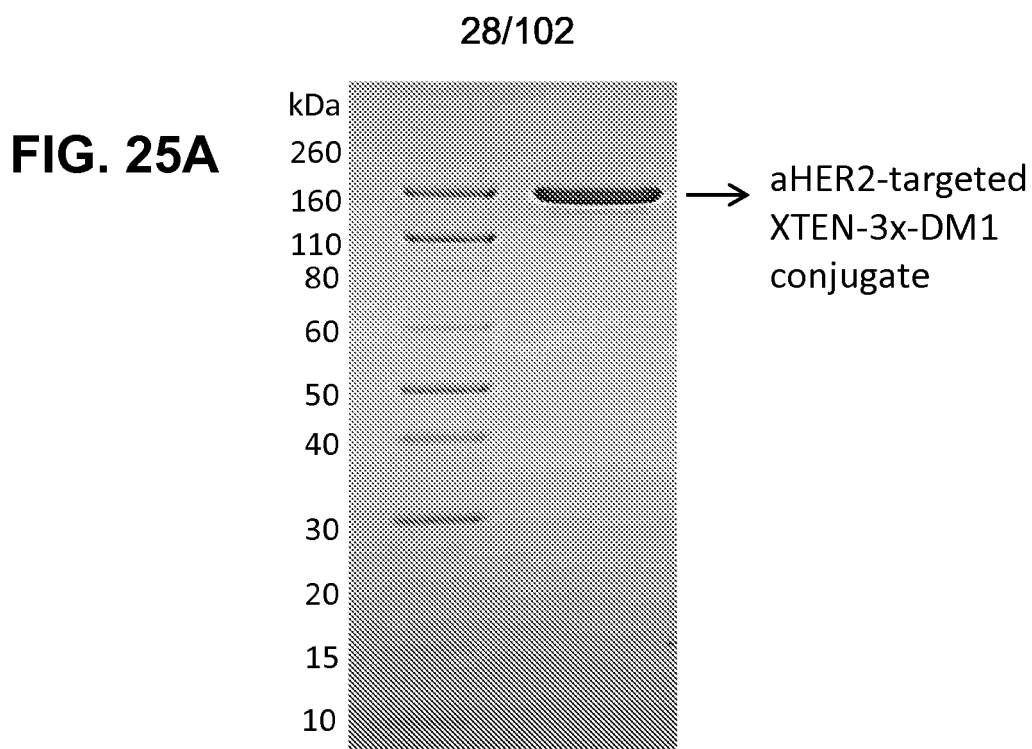
FIG. 23A

Calc. MW 105,554 Da
Obs. MW 105,577 Da

FIG. 23B**FIG. 23C****FIG. 23**

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FIG. 24A**FIG. 24**

**FIG. 25**

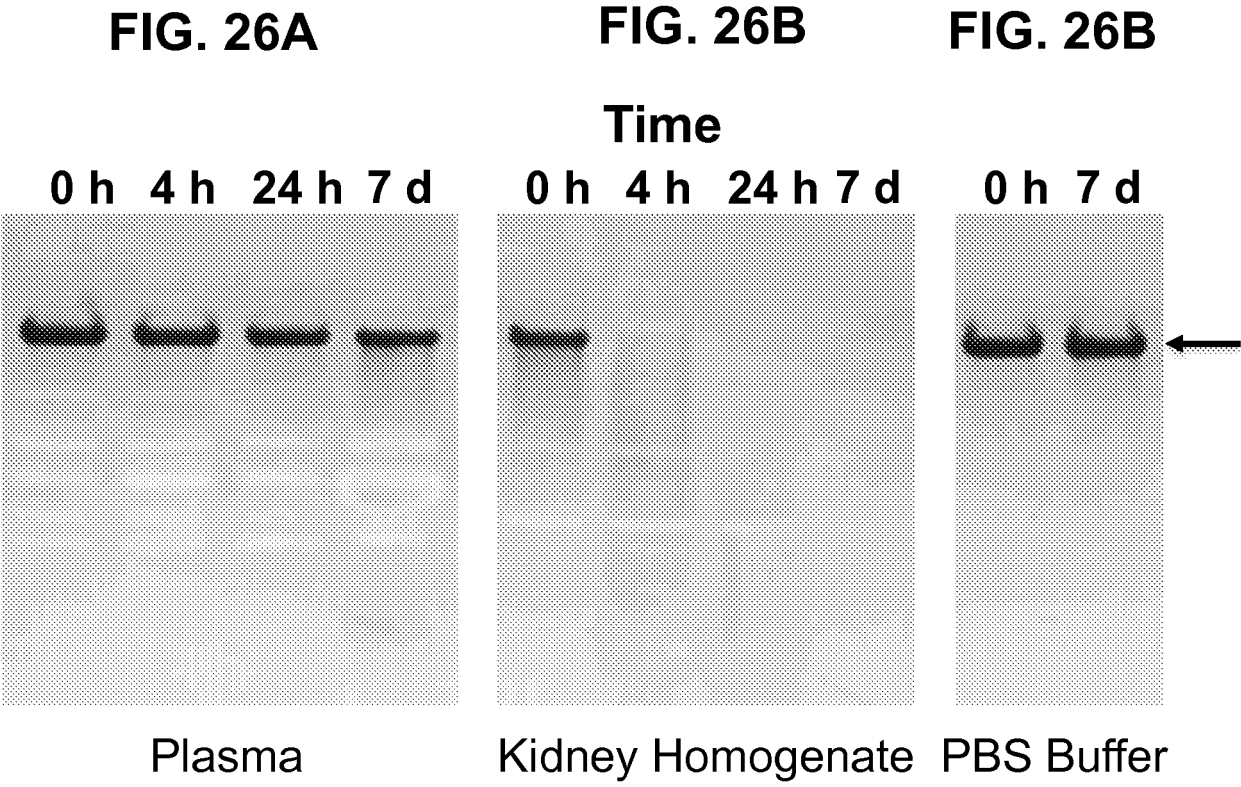


FIG. 26

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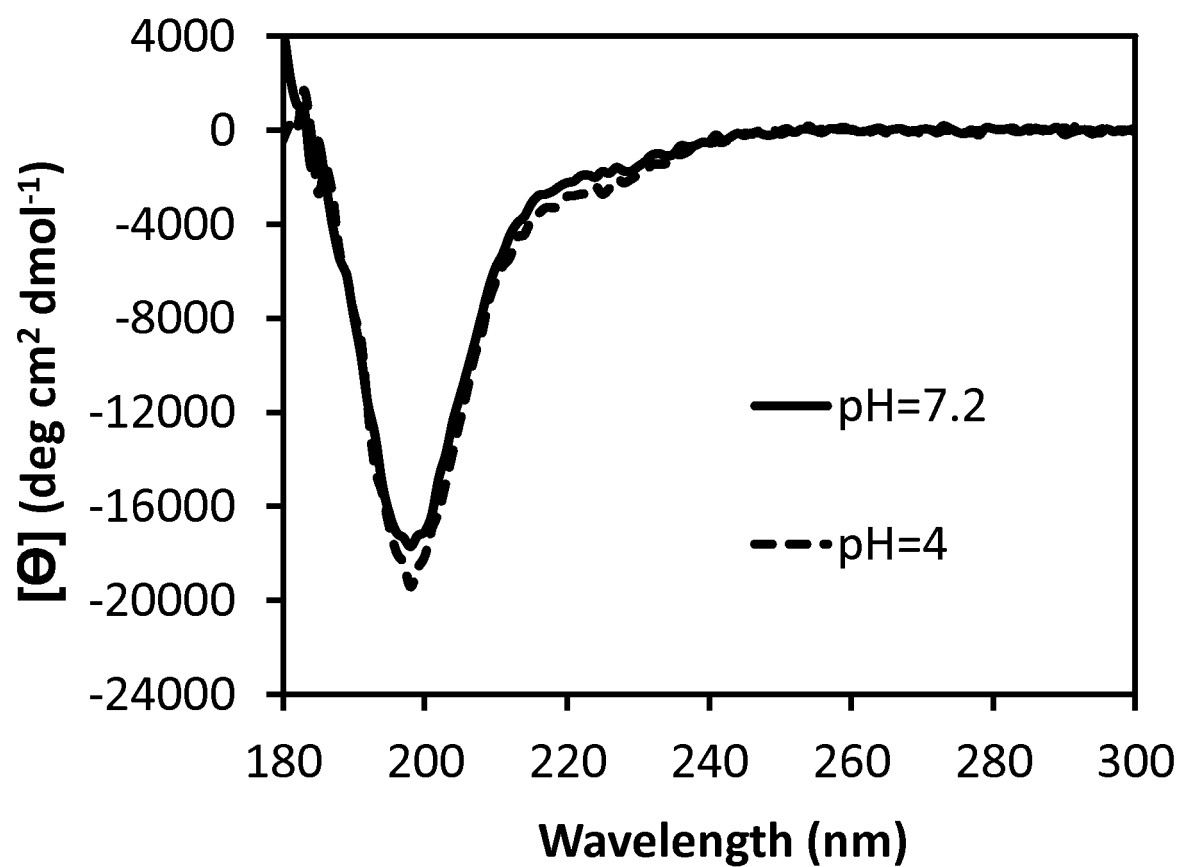


FIG. 27

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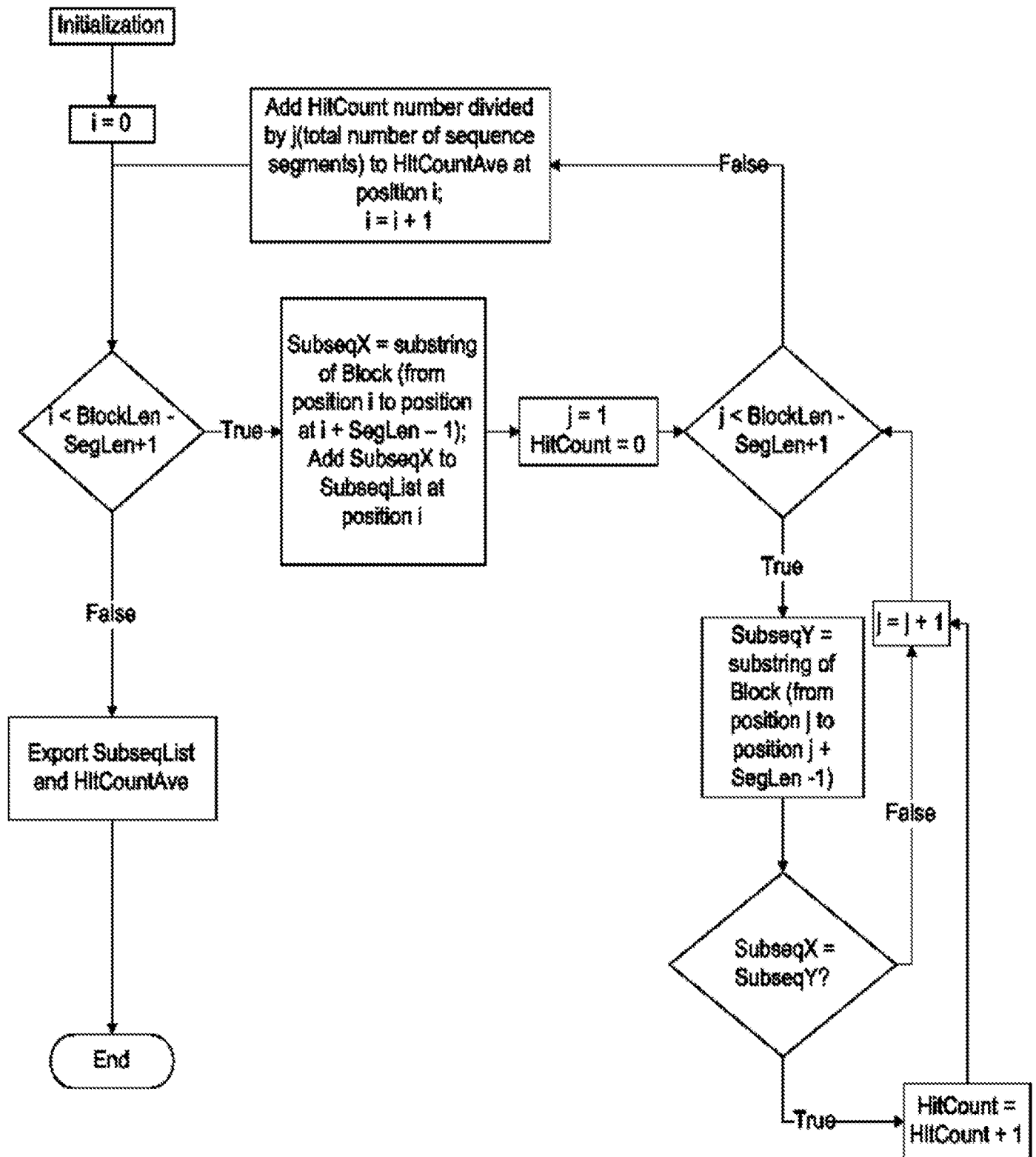
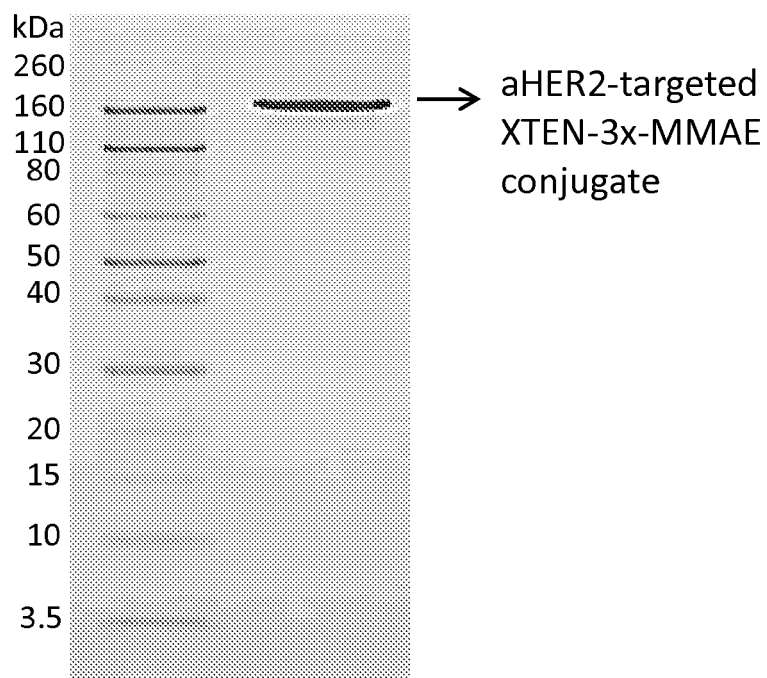
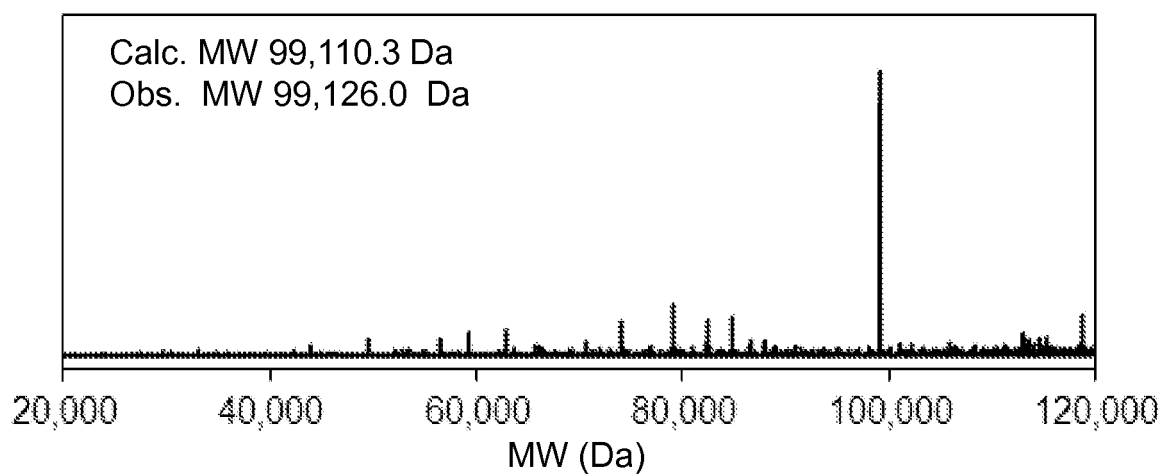


FIG. 28

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FIG. 29A**FIG. 29B****FIG. 29**

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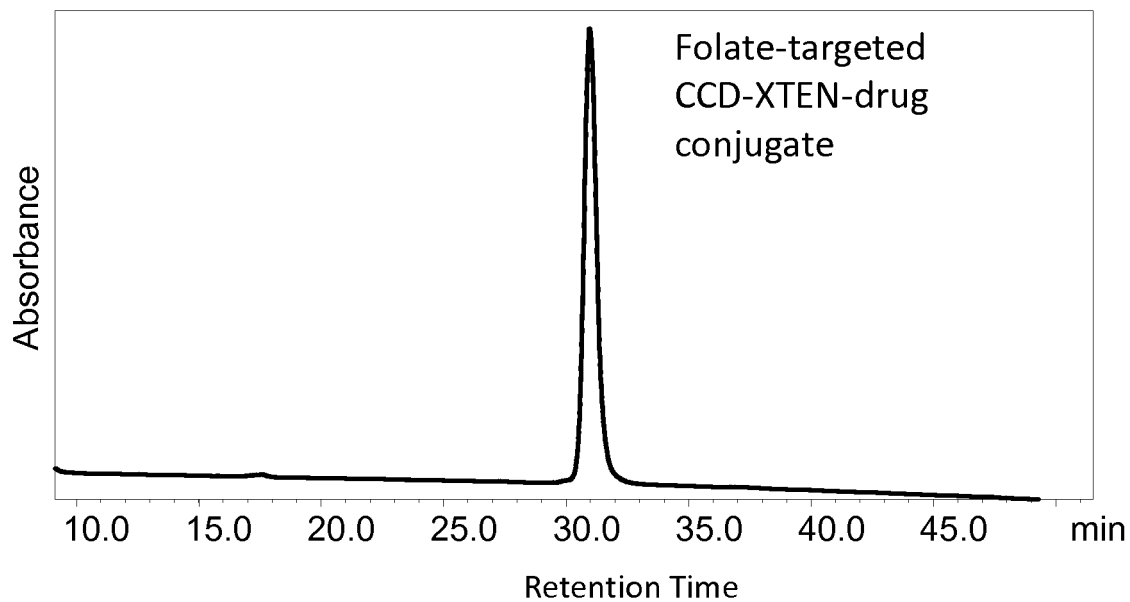
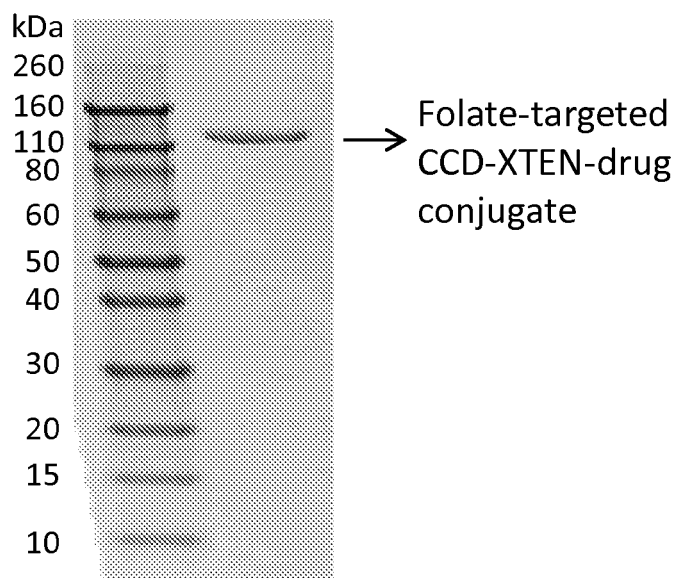
FIG. 30A**FIG. 30B****FIG. 30**

FIG. 31A

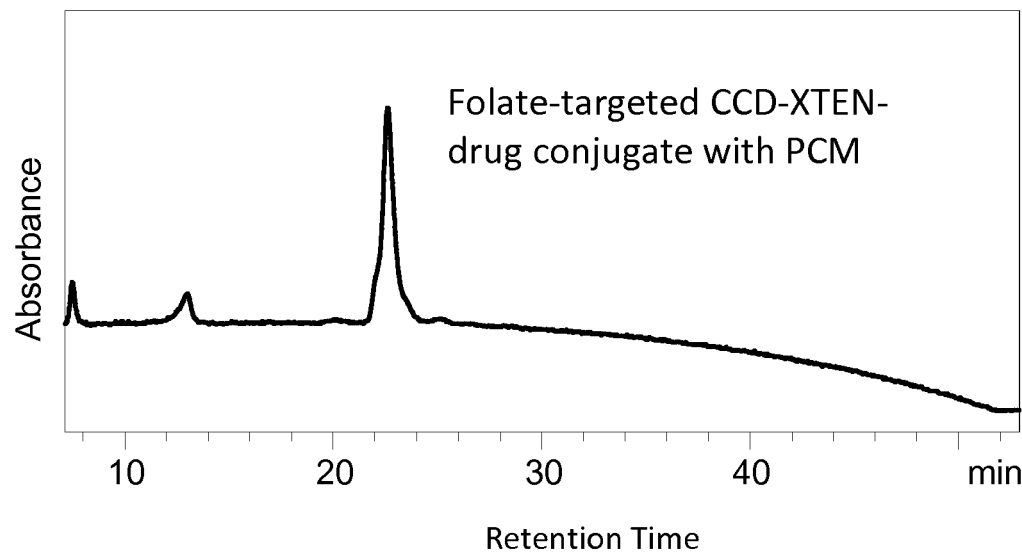


FIG. 31B

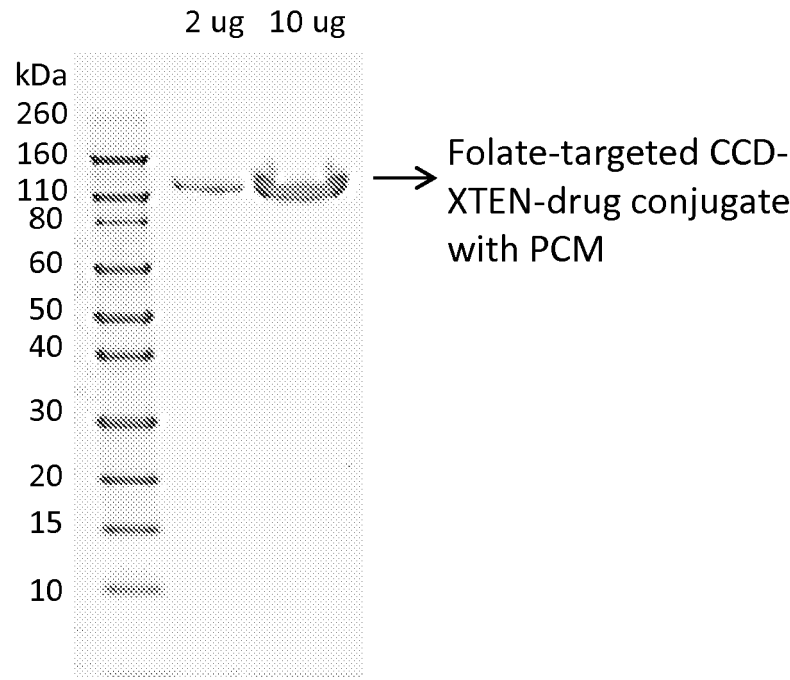


FIG. 31

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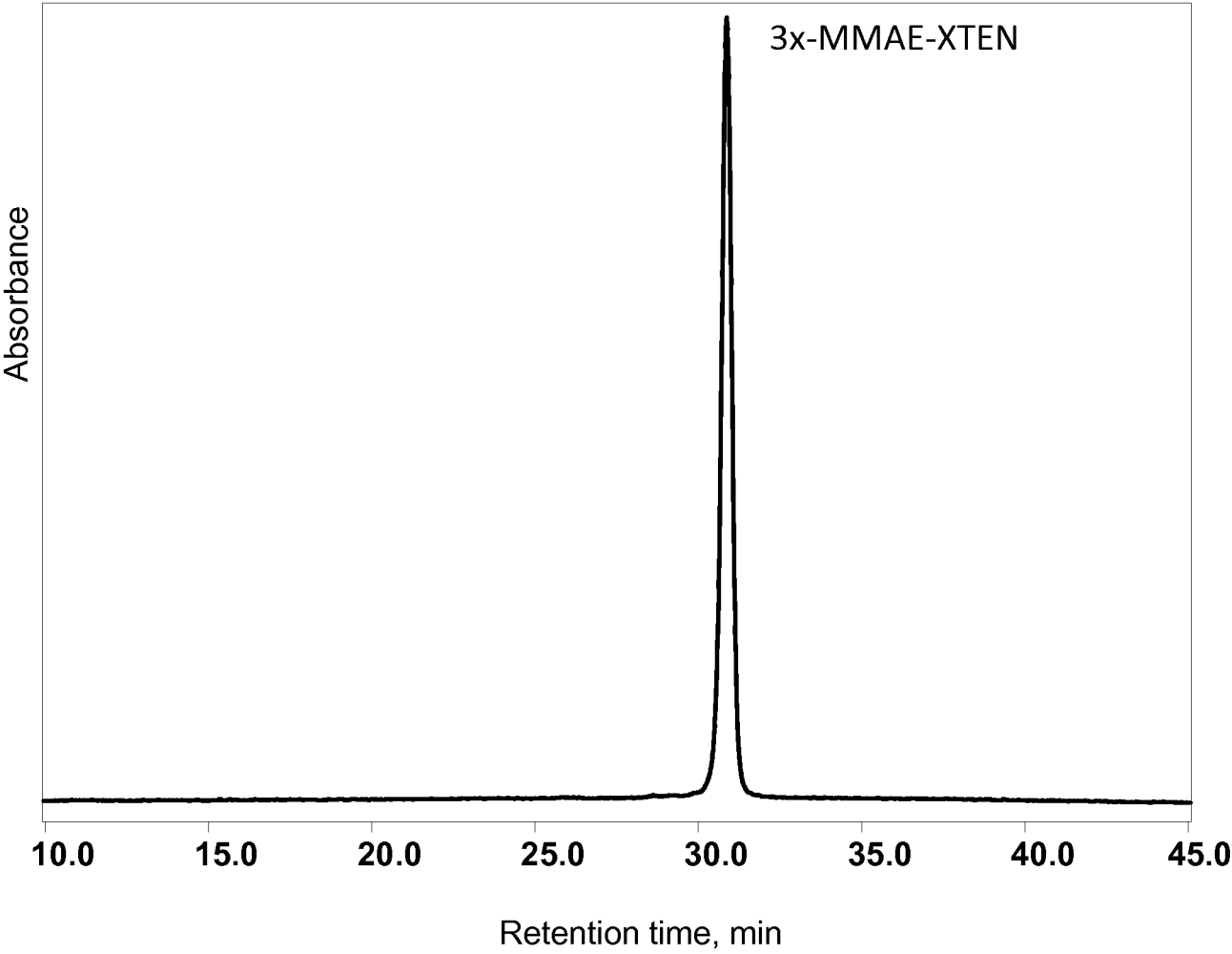


FIG. 32

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FIG. 33A

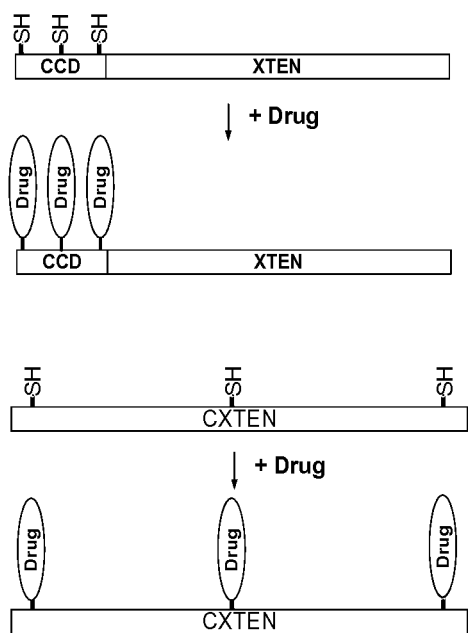


FIG. 33B

C4-HPLC Analysis

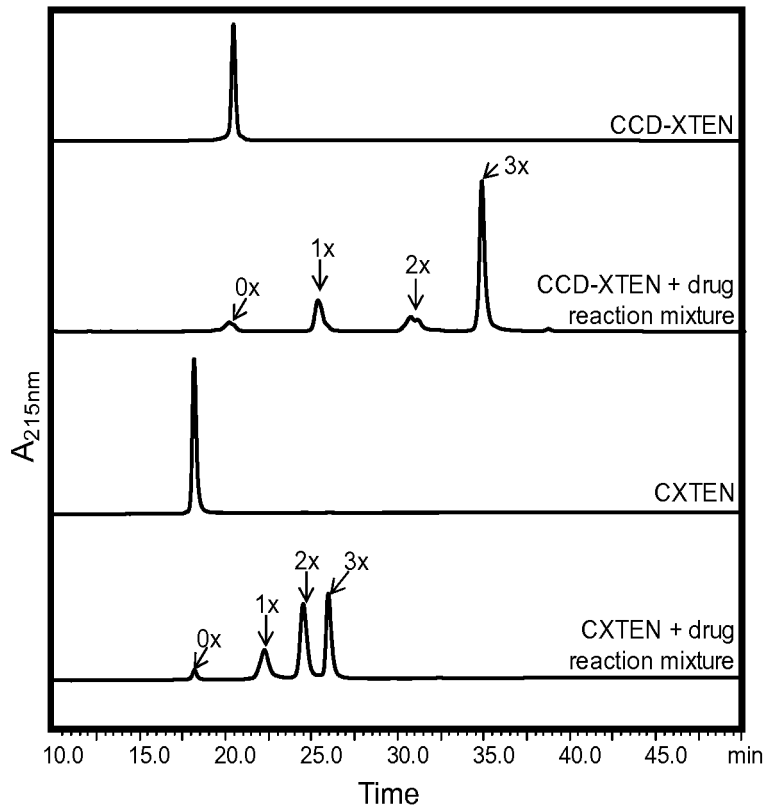


FIG. 33

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FIG. 34A

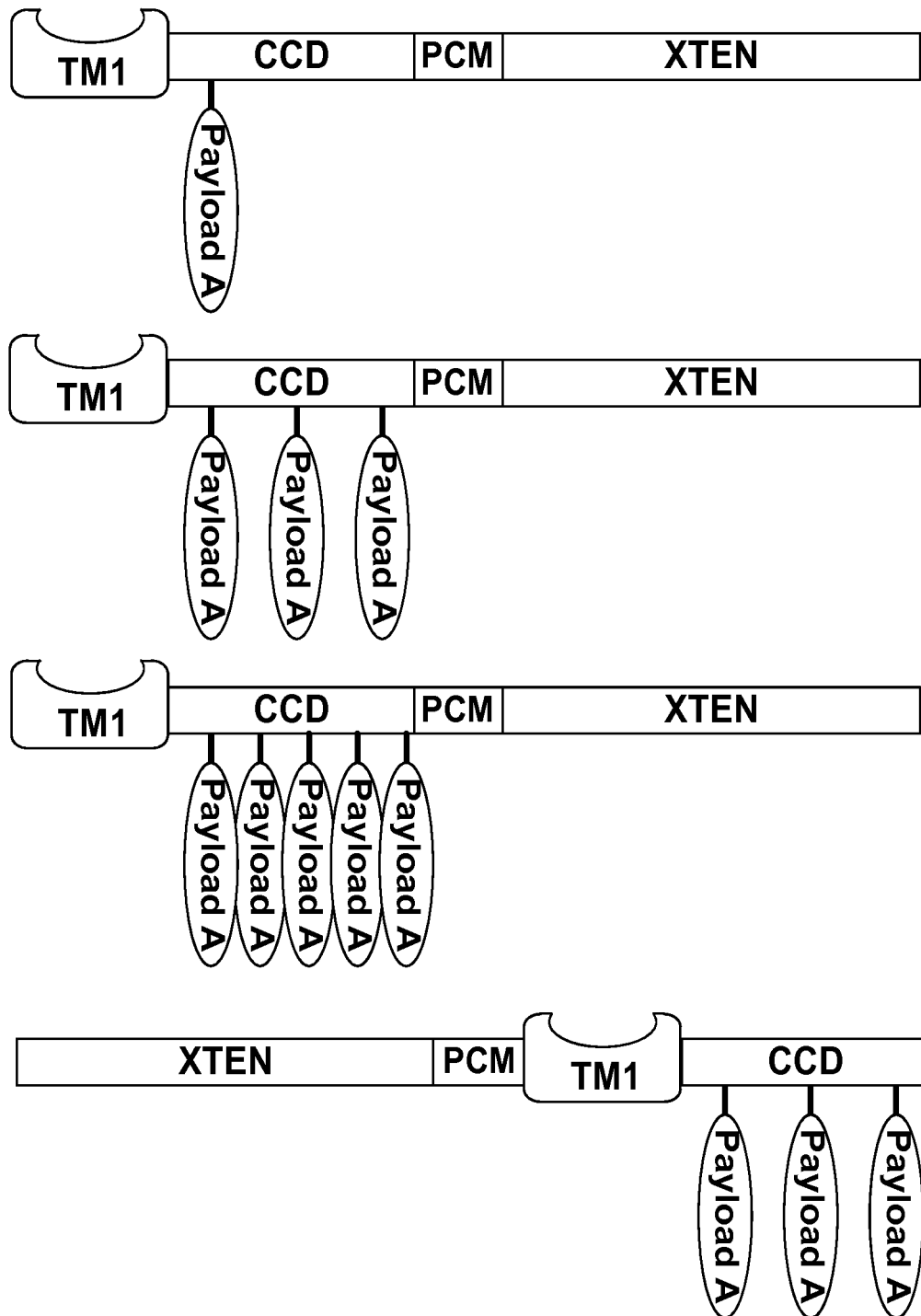


FIG. 34

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FIG. 34B

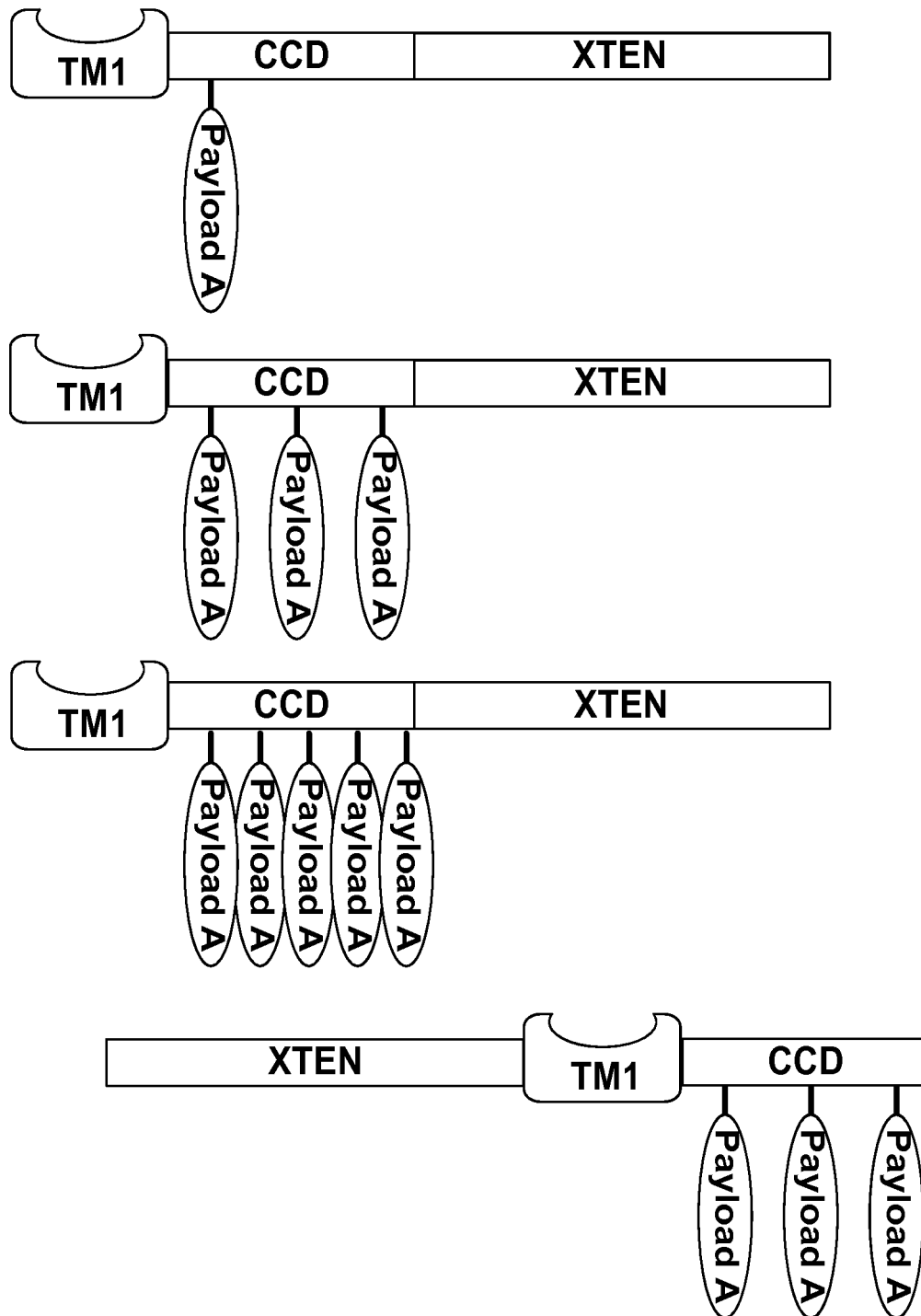


FIG. 34

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FIG. 34C

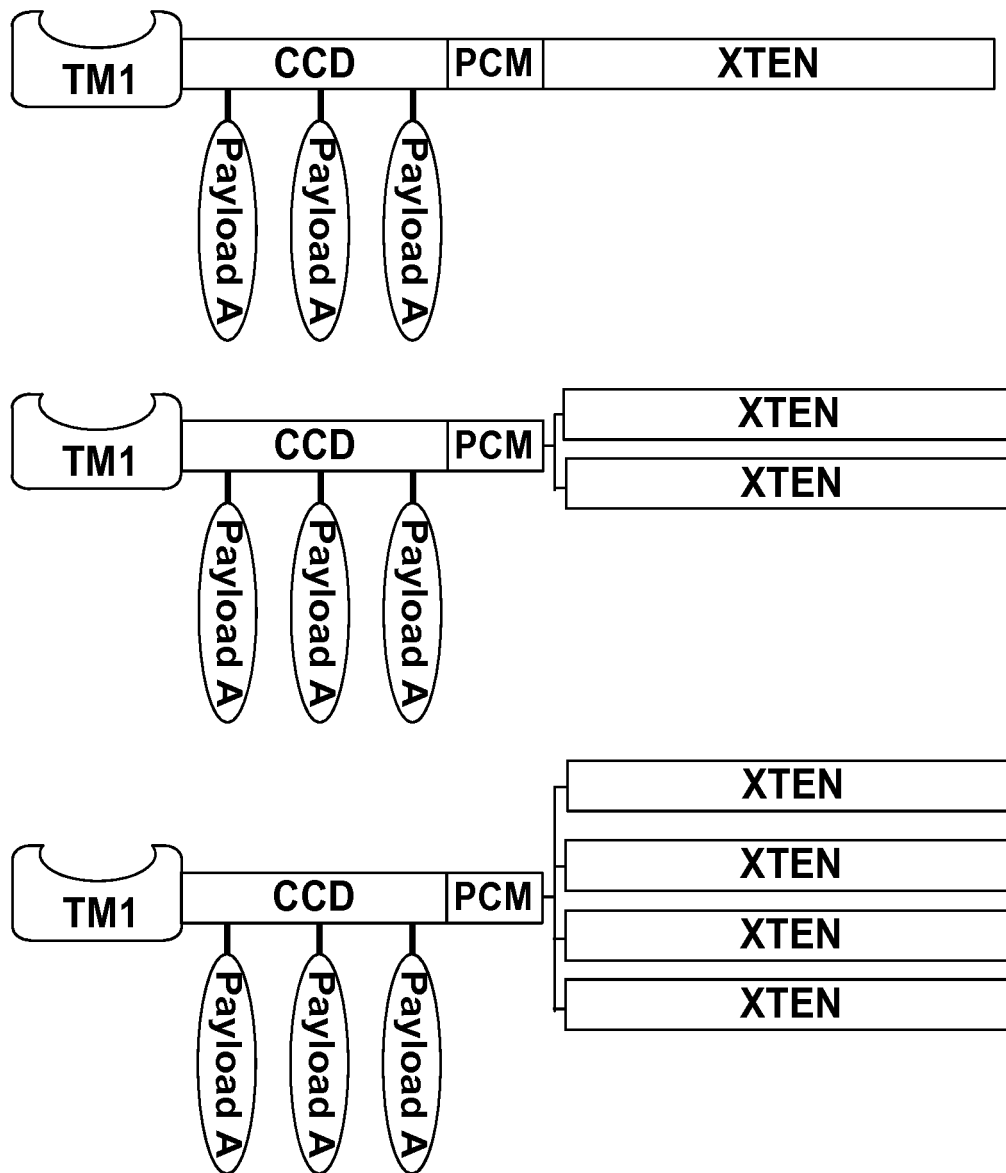


FIG. 34

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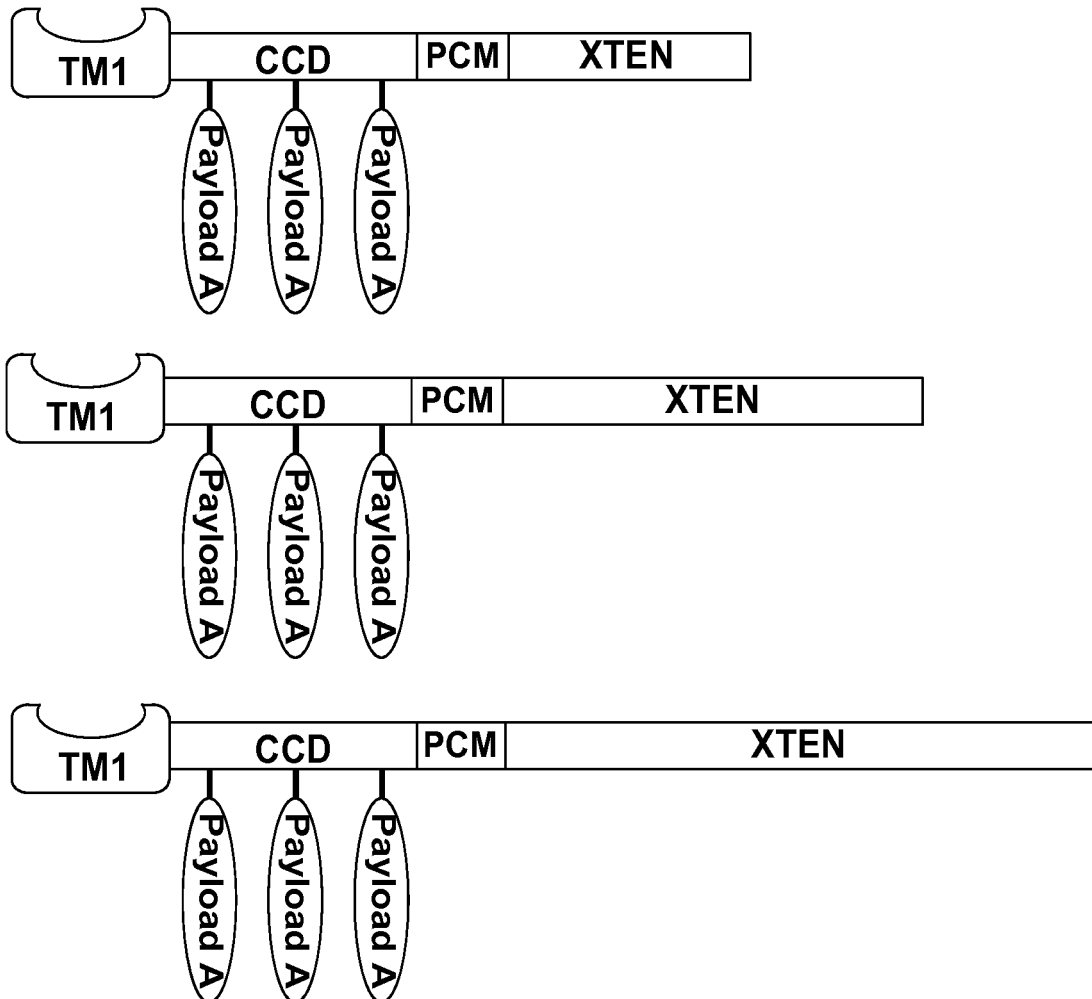
FIG. 34D**FIG. 34**

FIG. 35A

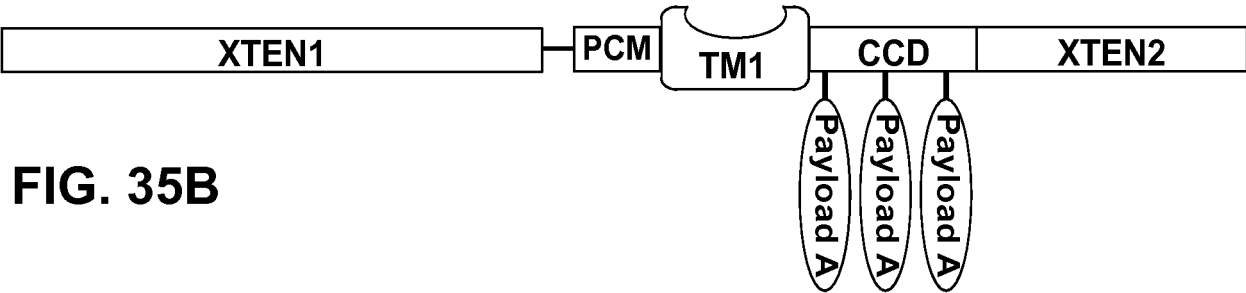


FIG. 35B

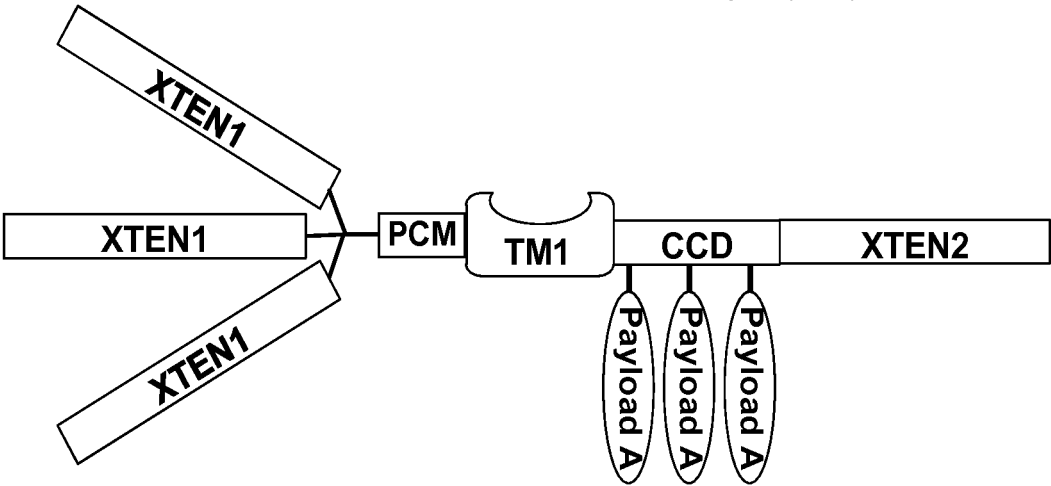
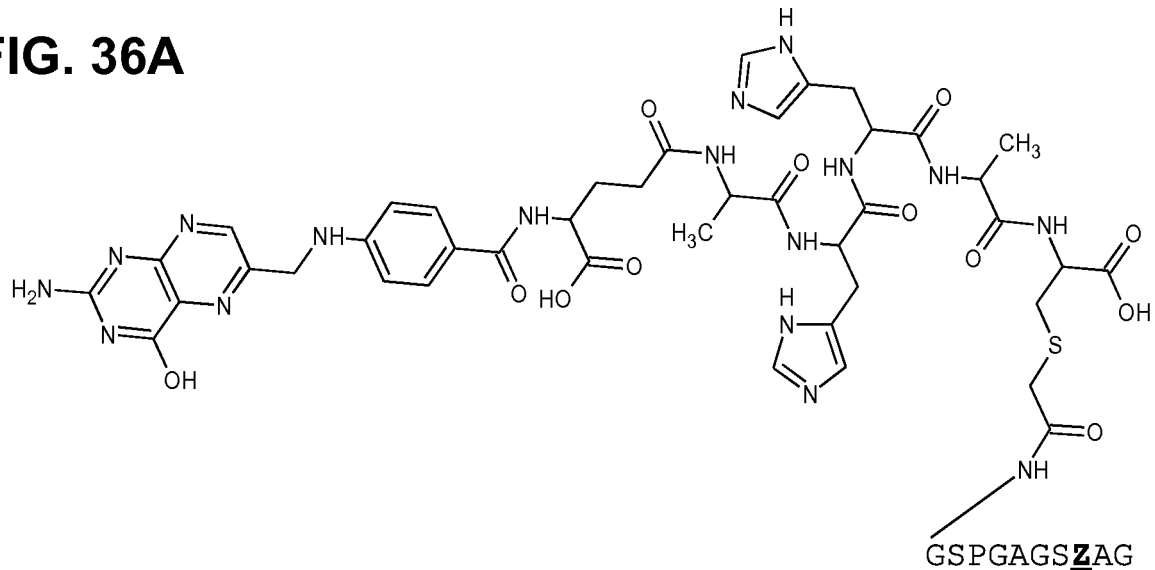


FIG. 35

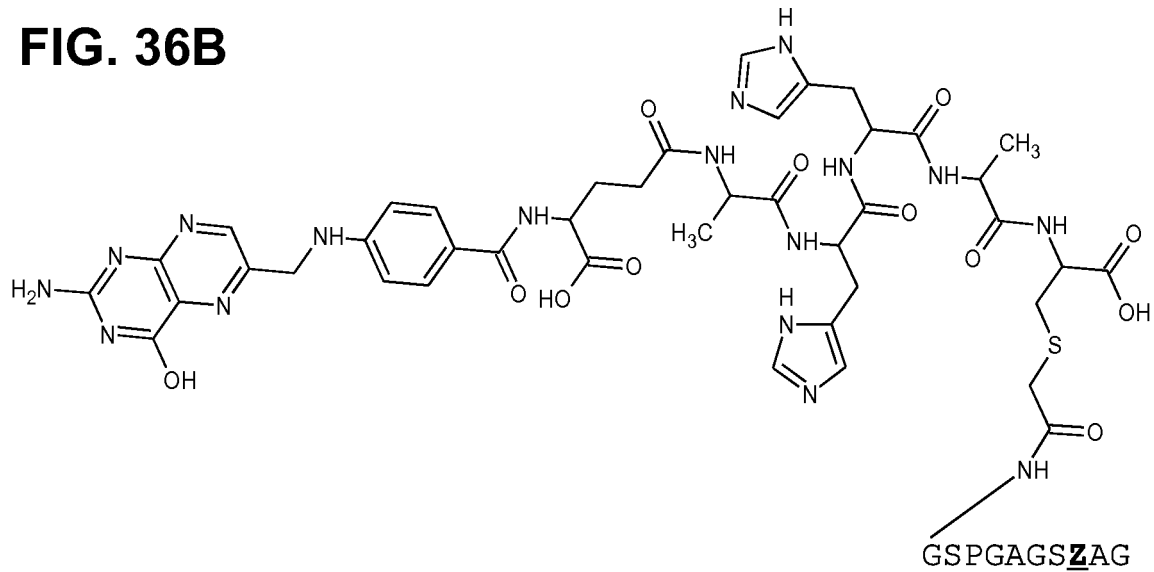
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FIG. 36A

SPTSTEEGTSES**A**ZSPEGPGTSTEPSEGS**Z**GGPGSPAGSPTSTEEGTSESATPES
 GPGTSTEPSEGSAPGSPAGSPTSTEEGTSTEPSEGSAPGTSTEPSEGSAPGTSES
 ATPESGPGSEPATSGSETPGSEPATSGSETPGSPAGSPTSTEEGTSESATPESGP
 GTSTEPSEGSAPGTSTEPSEGSAPGSPAGSPTSTEEGTSTEPSEGSAPGTSTEPS
 EGSAPGTSESATPESGPGTSTEPSEGSAPGTSESATPESGPGSEPATSGSETPGT
 STEPSEGSAPGTSTEPSEGSAPGTSESATPESGPGTSESATPESGPGSPAGSPTS
 TEEGTSESATPESGPGSEPATSGSETPGTSESATPESGPGTSTEPSEGSAPGTST
 EPSEGSAPGTSTEPSEGSAPGTSTEPSEGSAPGTSTEPSEGSAPGTSTEPSEGS
 PGSPAGSPTSTEEGTSTEPSEGSAPGTSESATPESGPGSEPATSGSETPGTSESA
 TPESGPGSEPATSGSETPGTSESATPESGPGTSTEPSEGSAPGTSESATPESGPG
 SPAGSPTSTEEGSPAGSPTSTEEGSPAGSPTSTEEGTSESATPESGPGTSTEPSE
 GSAPGTSESATPESGPGSEPATSGSETPGTSESATPESGPGSEPATSGSETPGTS
 ESATPESGPGTSTEPSEGSAPGSPAGSPTSTEEGTSESATPESGPGSEPATSGSE
 TPGTSESATPESGPGSPAGSPTSTEEGSPASASR

FIG. 36

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FIG. 36B

SPTSTEEGTSESAZSPEGPGTSTEPSEGSZGGLSGRSDNHSPLGLAGSPGSPAGS
PTSTEEGTSESATPESGPGTSTEPSEGSAPGSPAGSPTSTEEGTSTEPSEGSAPG
TSTEPSEGSAPGTSESATPESGPGSEPATSGSETPGSEPATSGSETPGSPAGSPT
STEEGTSESATPESGPGTSTEPSEGSAPGTSTEPSEGSAPGSPAGSPTSTEEGT
TEPSEGSAPGTSTEPSEGSAPGTSESATPESGPGTSTEPSEGSAPGTSESATPES
GPGSEPATSGSETPGTSTEPSEGSAPGTSTEPSEGSAPGTSESATPESGPGTSES
ATPESGPGSPAGSPTSTEEGTSESATPESGPGSEPATSGSETPGTSESATPESGP
GTSTEPSEGSAPGTSTEPSEGSAPGTSTEPSEGSAPGTSTEPSEGSAPGTSTEPS
EGSAPGTSTEPSEGSAPGSPAGSPTSTEEGTSTEPSEGSAPGTSESATPESGPGS
EPATSGSETPGTSESATPESGPGSEPATSGSETPGTSESATPESGPGTSTEPSEG
SAPGTSESATPESGPGSPAGSPTSTEEGSPAGSPTSTEEGSPAGSPTSTEEGTSE
SATPESGPGTSTEPSEGSAPGTSESATPESGPGSEPATSGSETPGTSESATPESG
PGSEPATSGSETPGTSESATPESGPGTSTEPSEGSAPGSPAGSPTSTEEGTSESA
TPESGPGSEPATSGSETPGTSESATPESGPGSPAGSPTSTEEGSPA

FIG. 36

FIG. 36



FIG. 37A

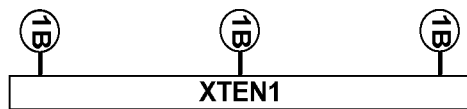


FIG. 37B

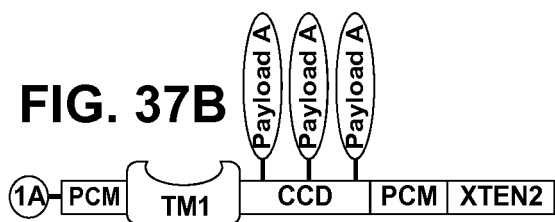


FIG. 37C

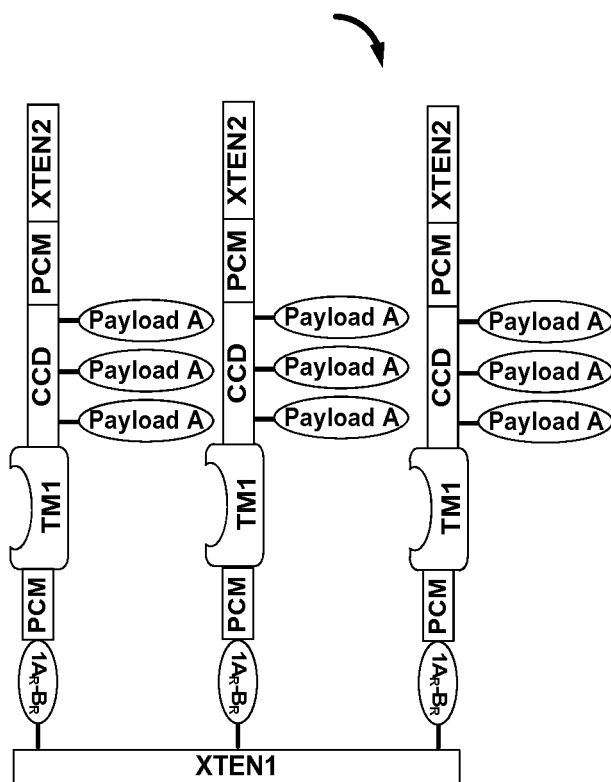
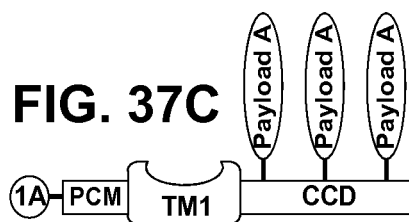


FIG. 37D

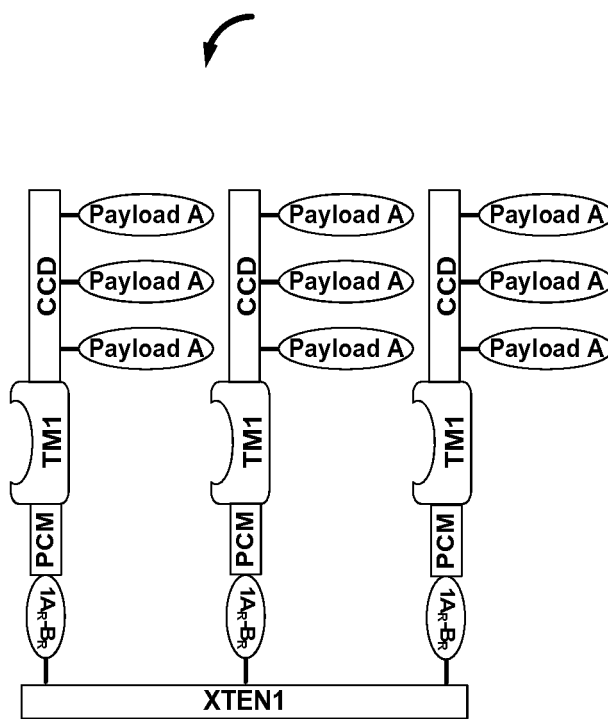


FIG. 37E

FIG. 37

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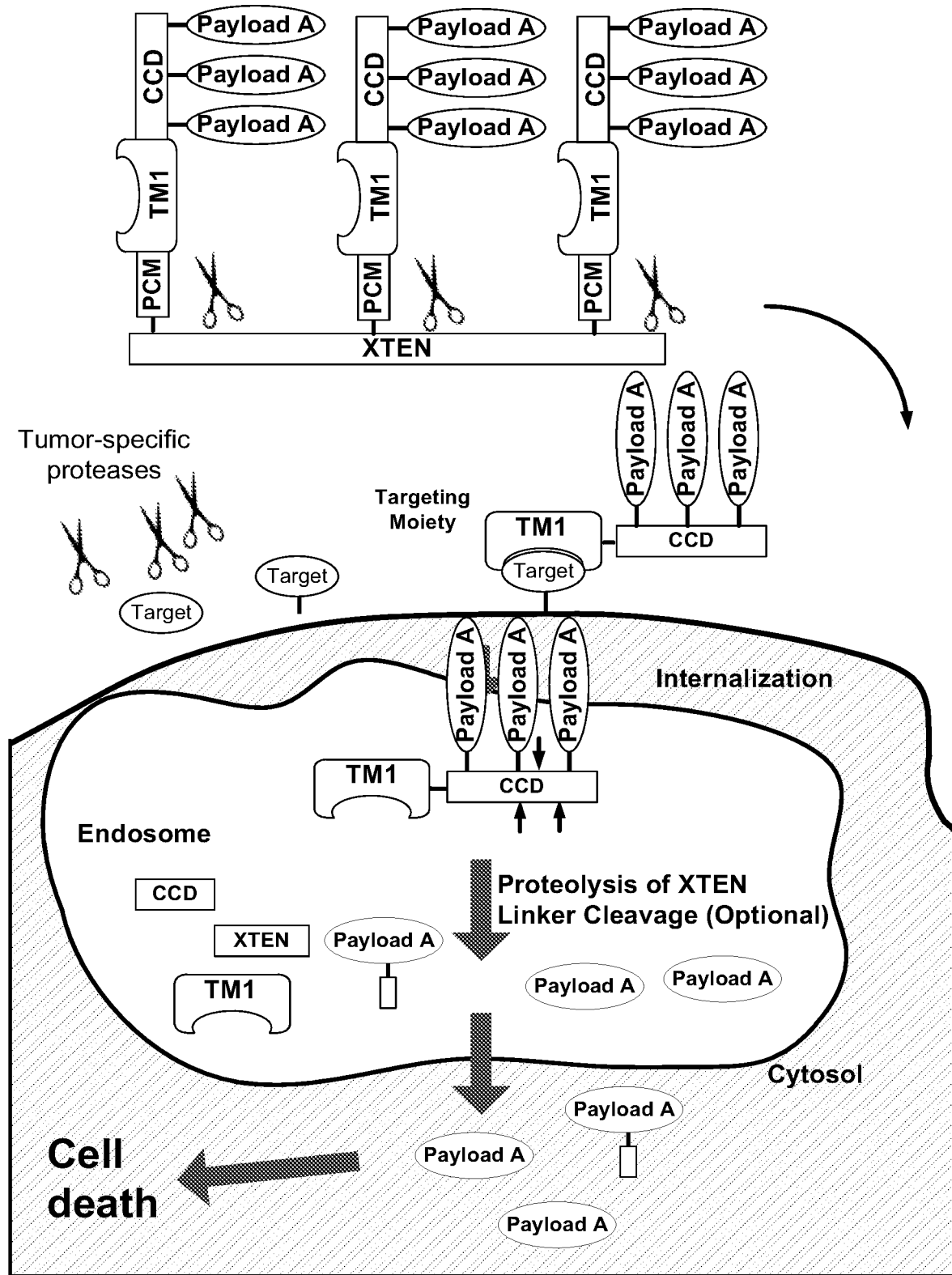


FIG. 38

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FIG. 39A

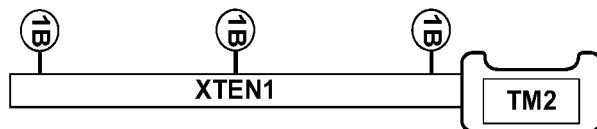


FIG. 39B

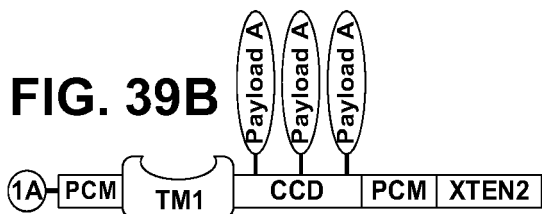


FIG. 39C

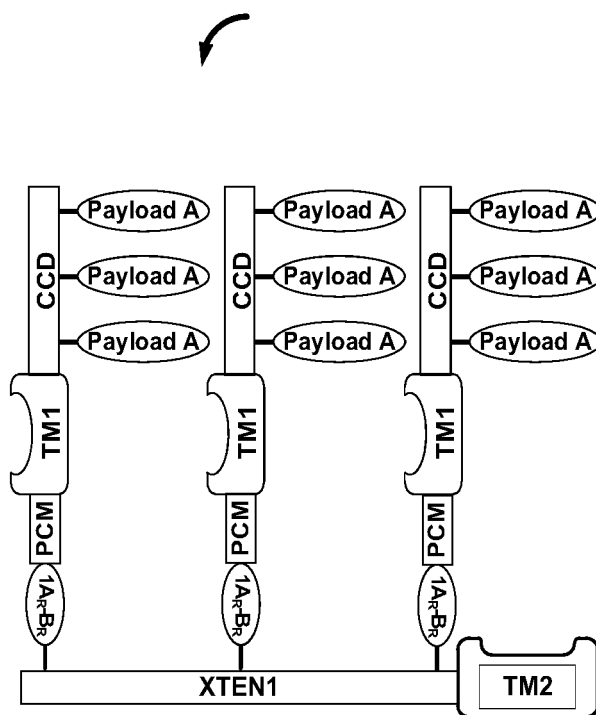
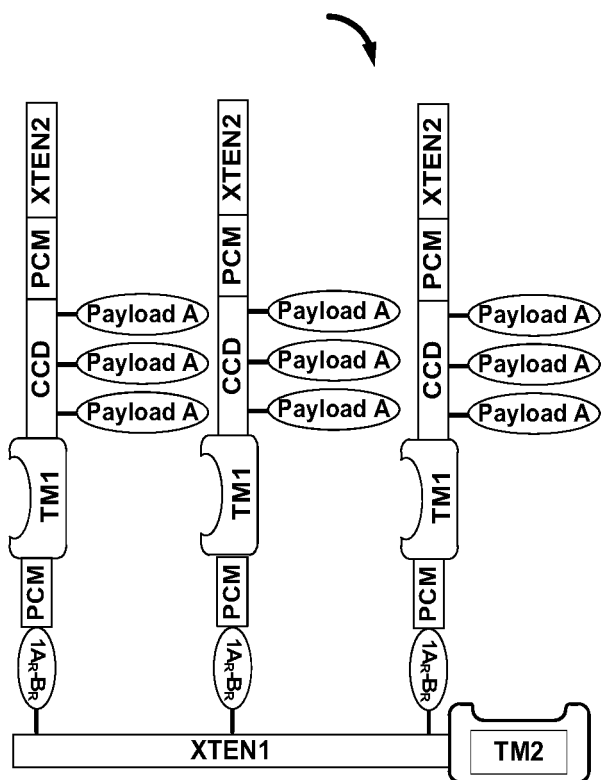
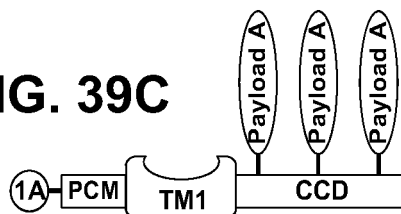


FIG. 39D

FIG. 39E

FIG. 39

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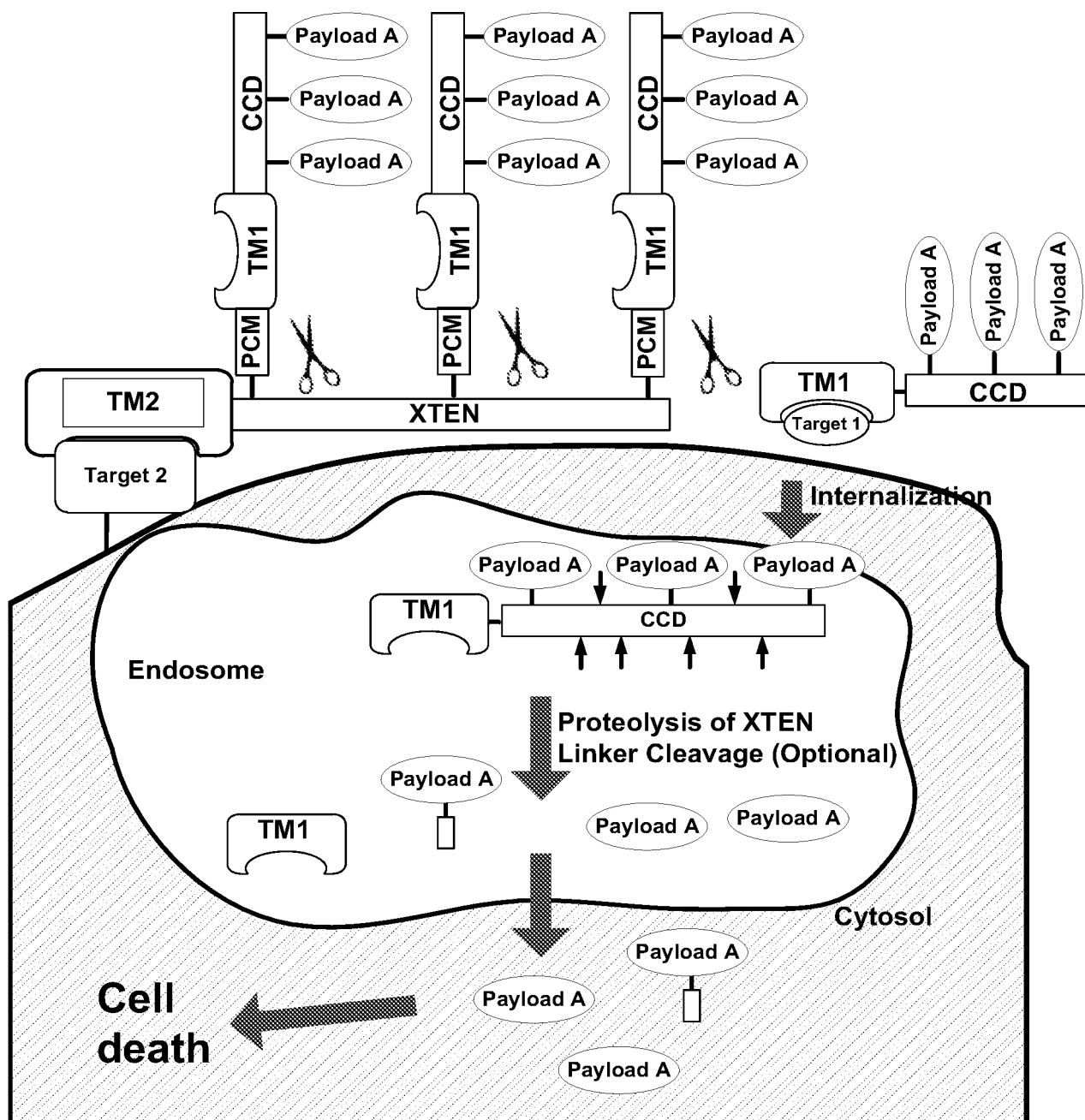
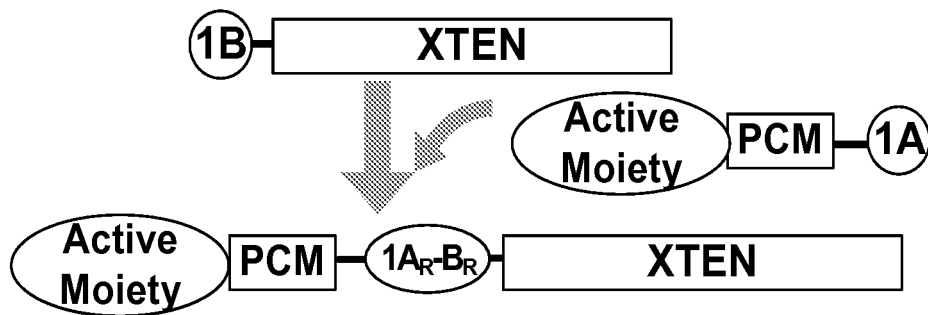
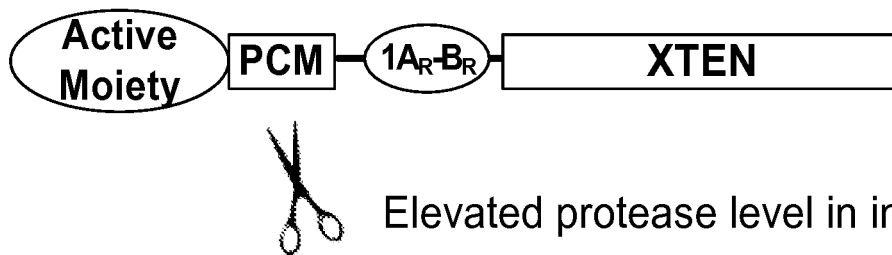


FIG. 40

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FIG. 41A

Fusion molecule has 10-1000x potency reduction when compared to unconjugated Active Moiety by itself

FIG. 41B

Elevated protease level in inflamed tissue

Active Moiety Liberated free Active Moiety regains potency near the proximity of inflamed tissue

FIG. 41

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FIG. 42A

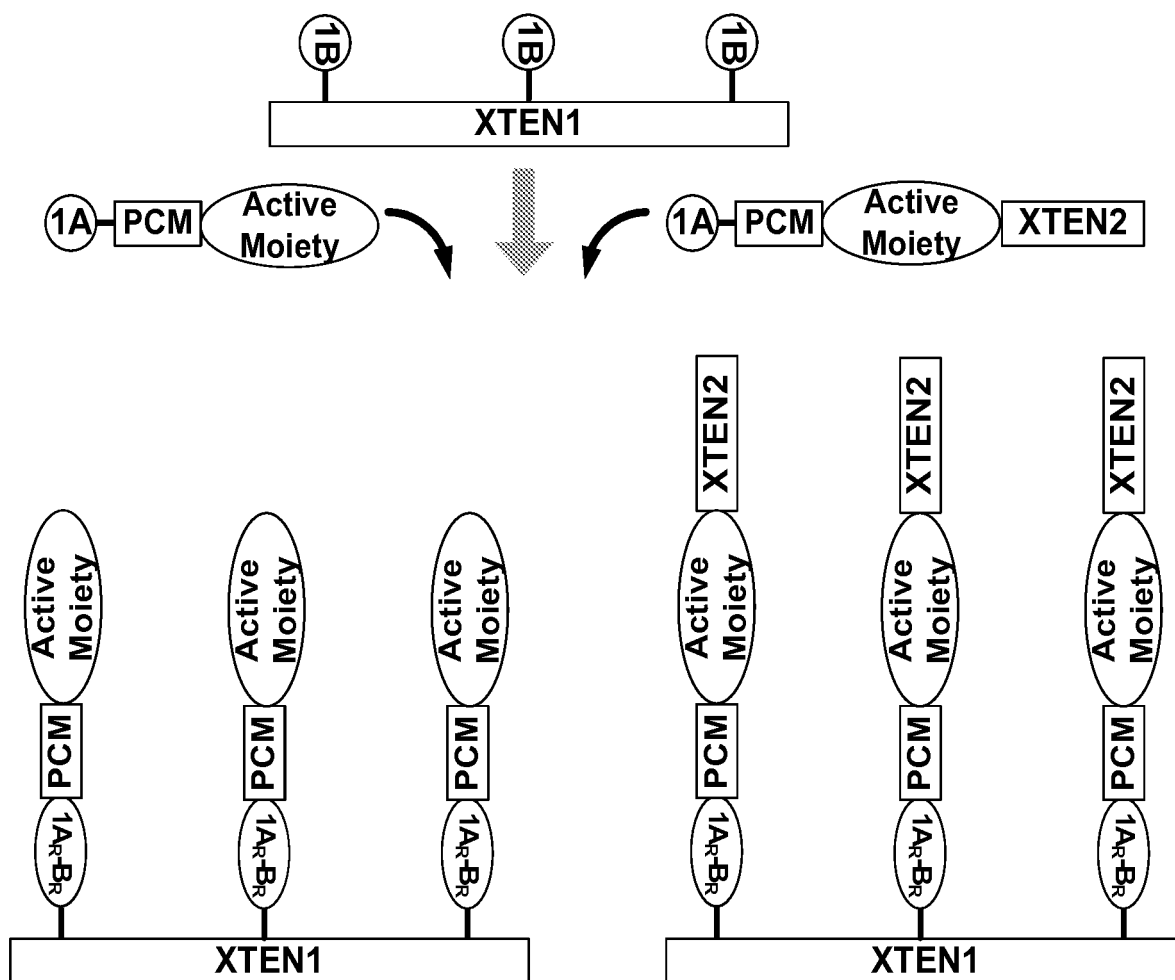
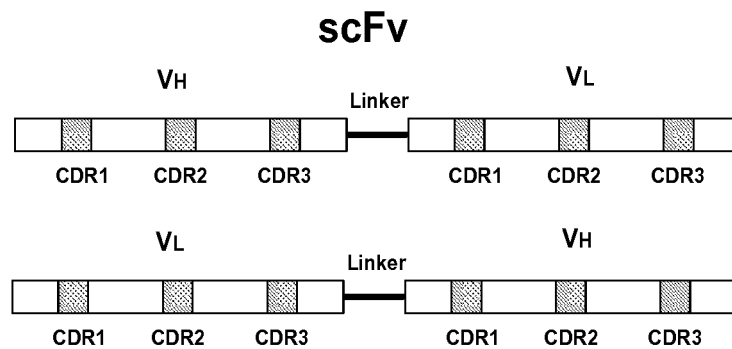
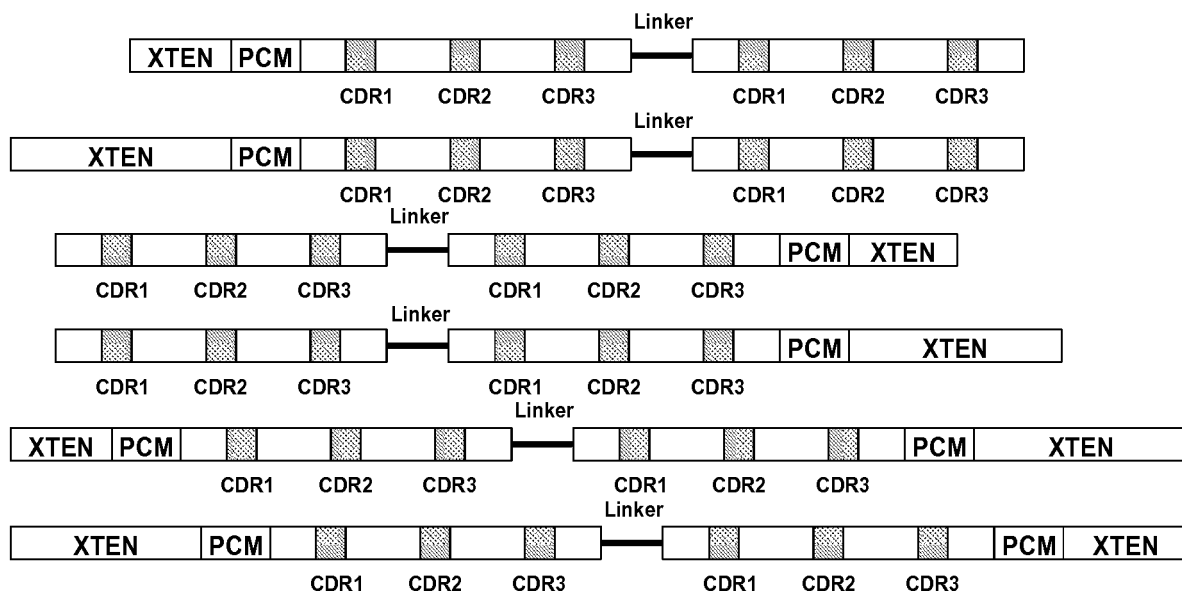


FIG. 42B

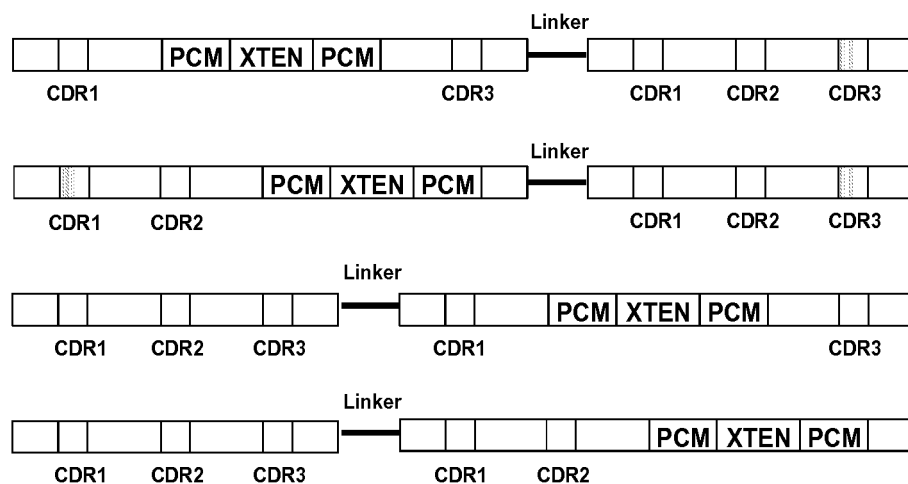
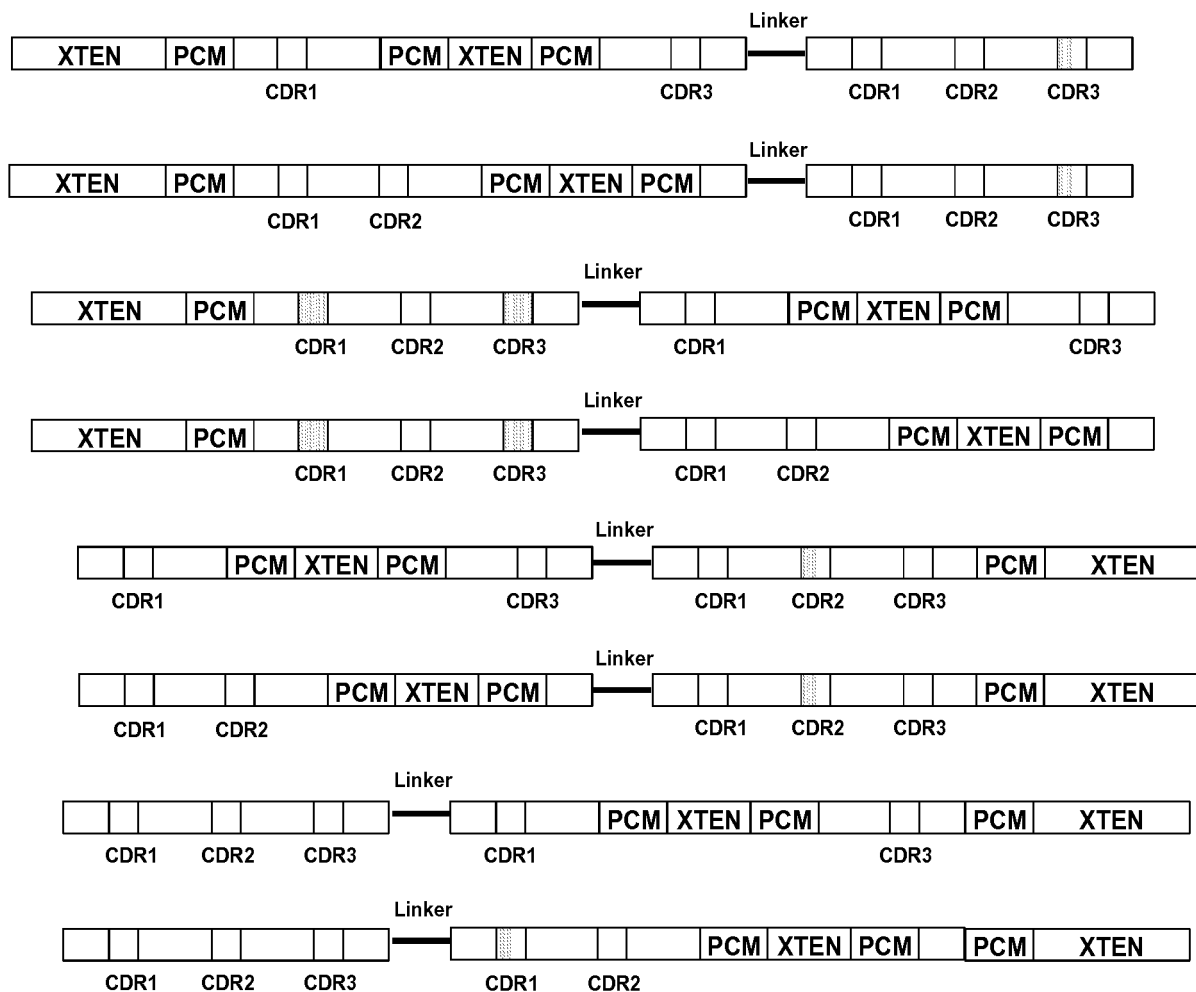
FIG. 42C

FIG. 42

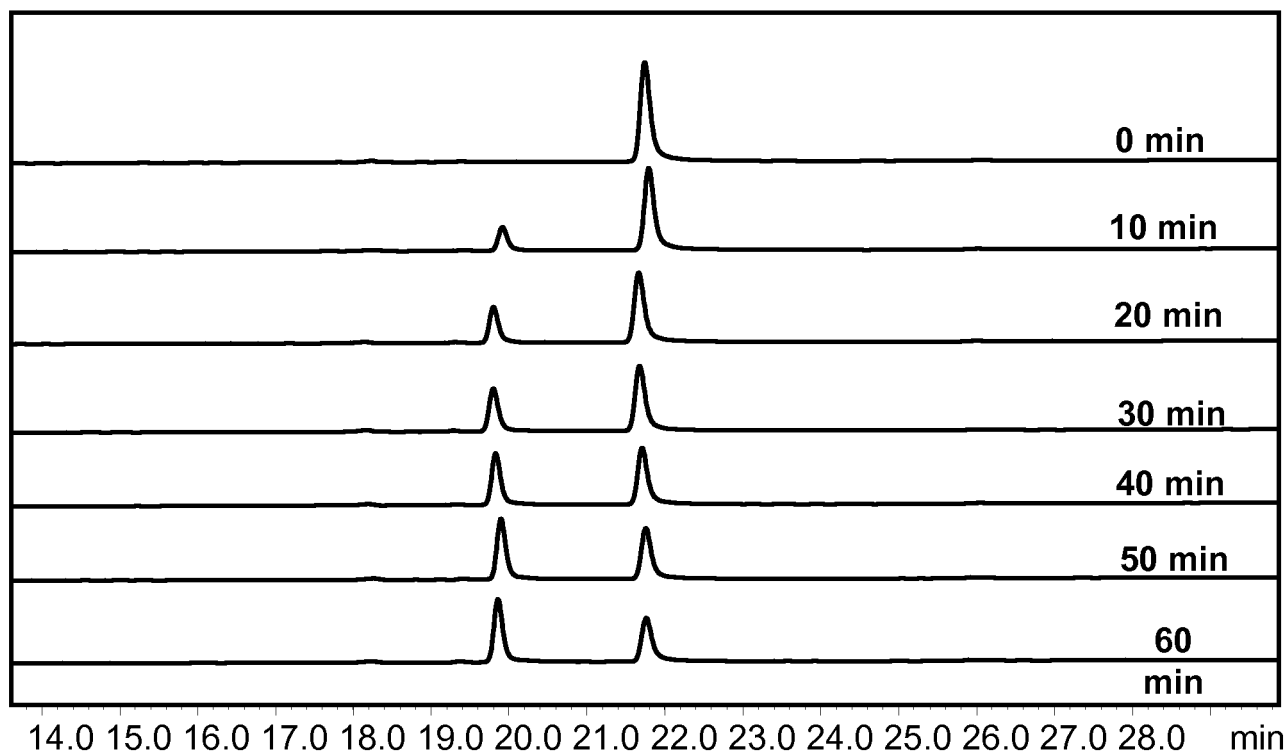
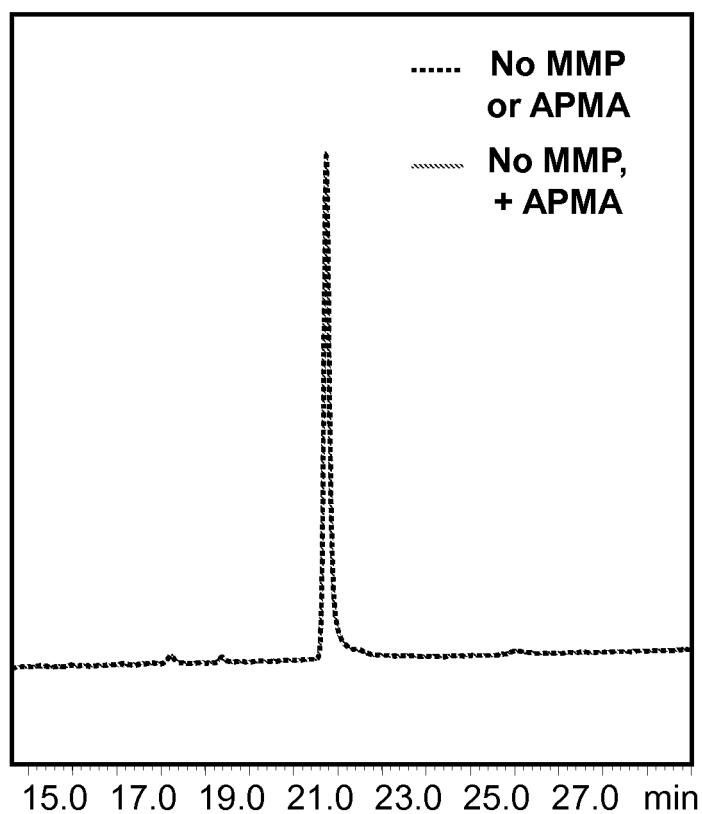
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FIG. 43A**FIG. 43B** **scFv-PCM-XTEN Constructs****FIG. 43**

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FIG. 43C scFv-PCM-XTEN Constructs**FIG. 43D** scFv-PCM-XTEN Constructs**FIG. 43**

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FIG. 44A**FIG. 44B****FIG. 44**

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FIG. 45A

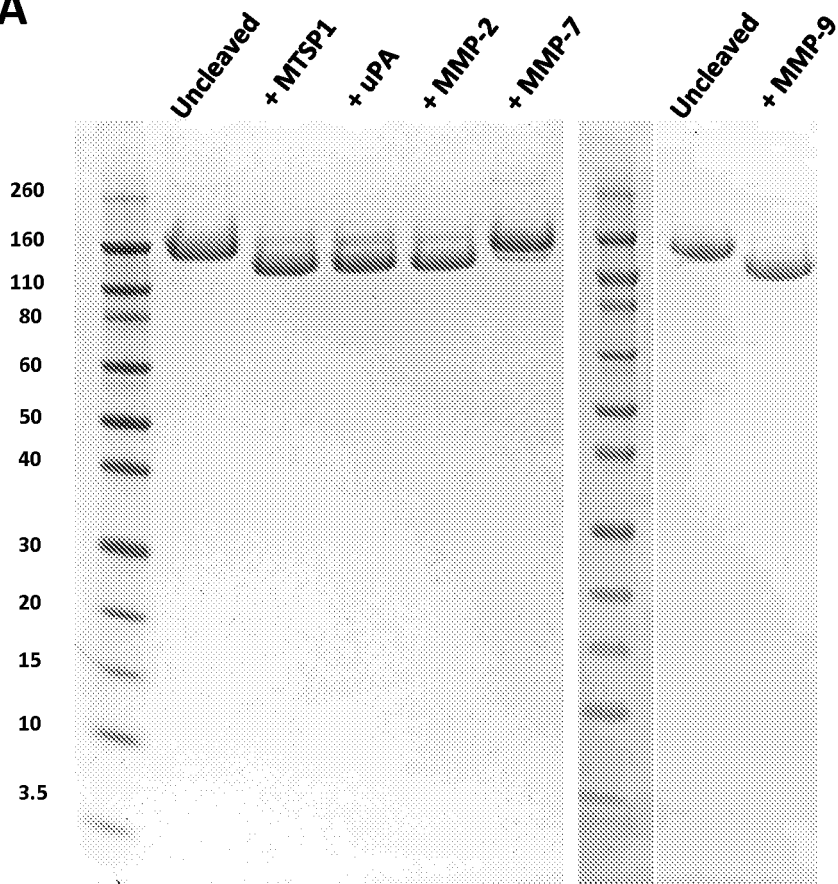


FIG. 45B

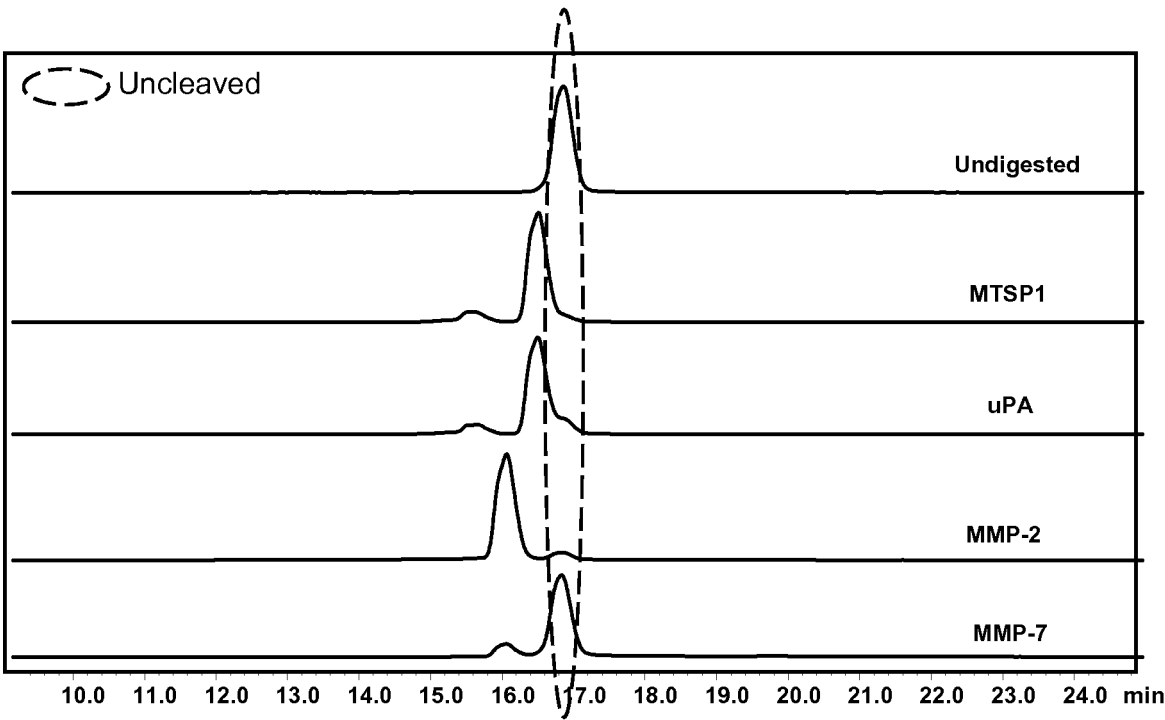


FIG. 45

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FIG. 46A

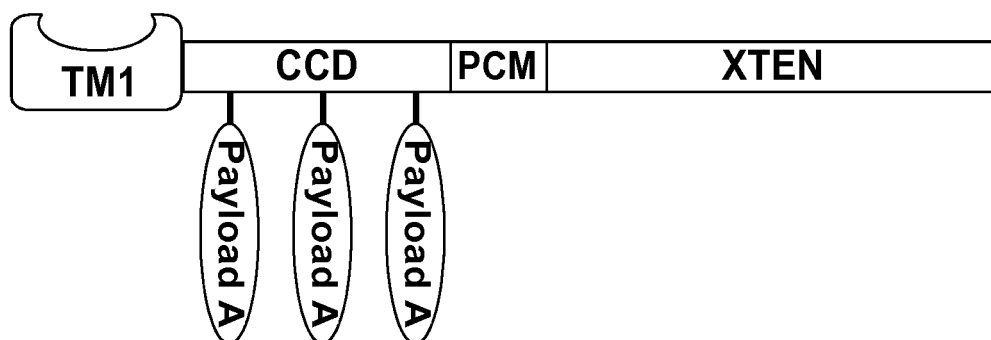


FIG. 46B

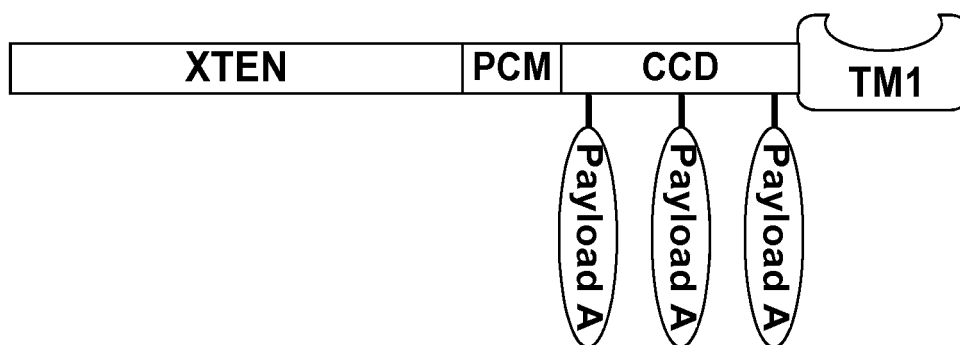


FIG. 46C

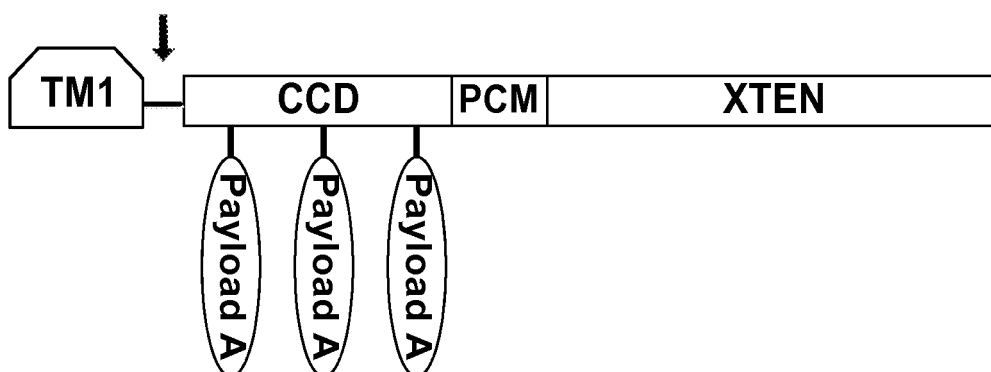


FIG. 46

FIG. 47A

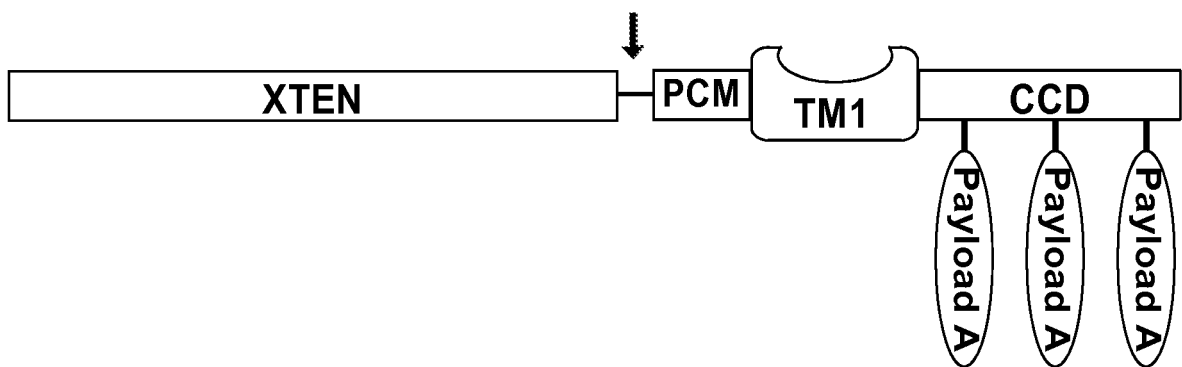


FIG. 47B

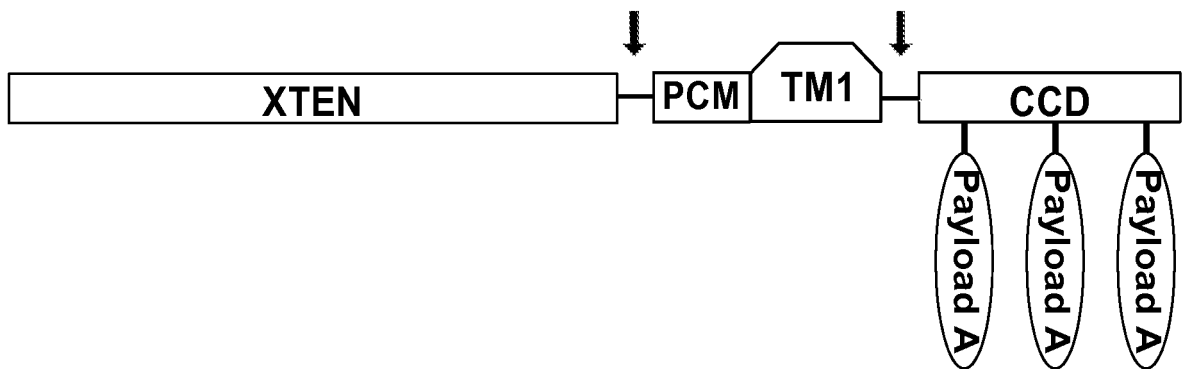


FIG. 47

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FIG. 48A

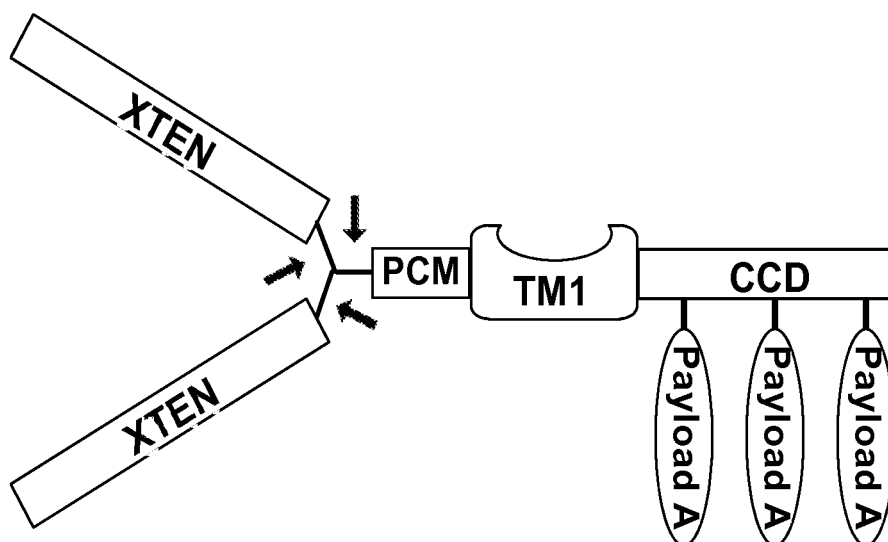


FIG. 48B

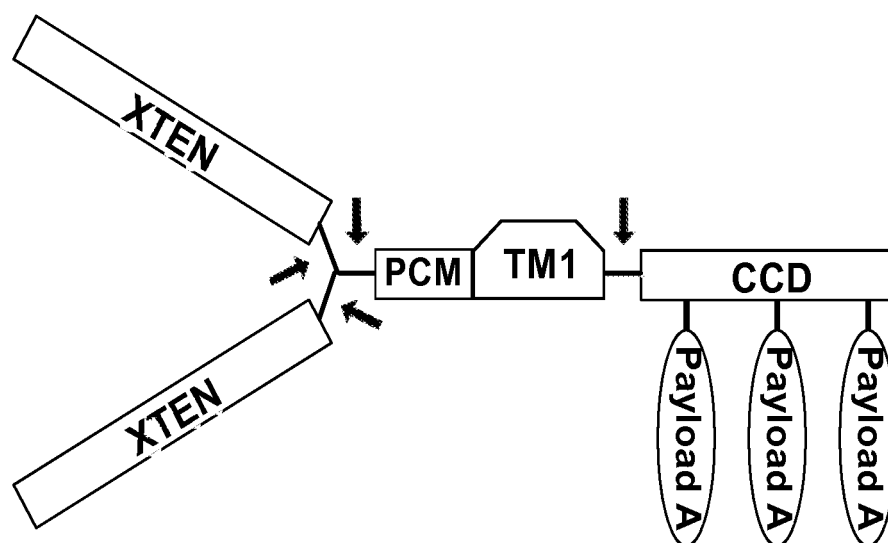


FIG. 48

FIG. 49A

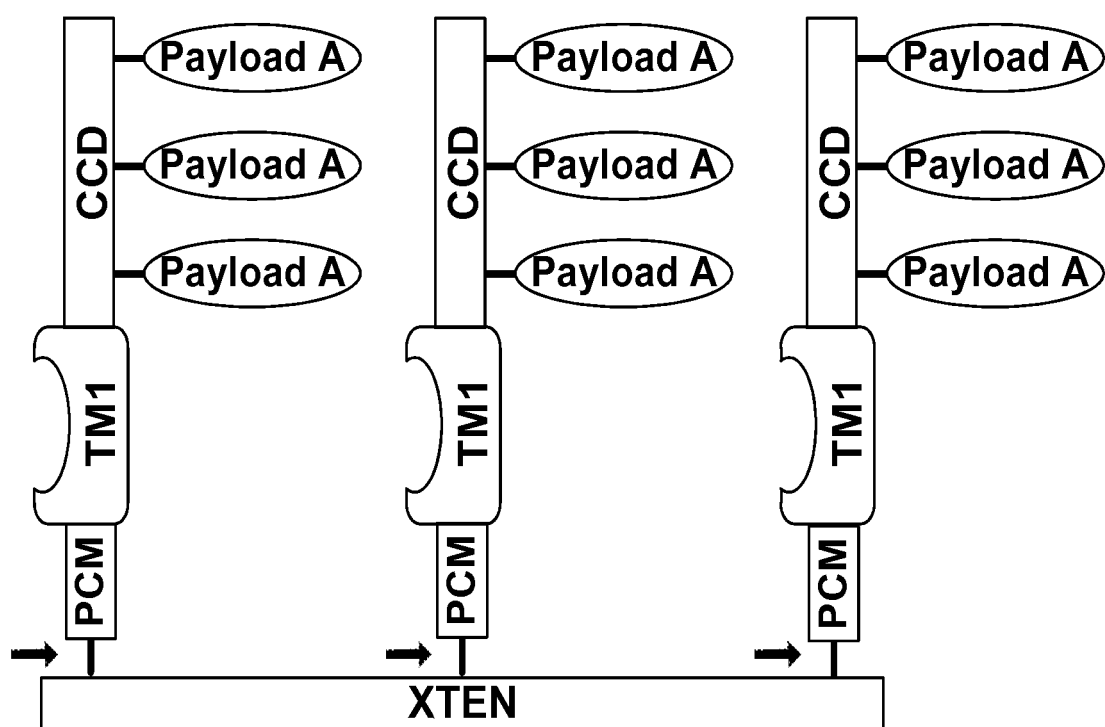


FIG. 49B

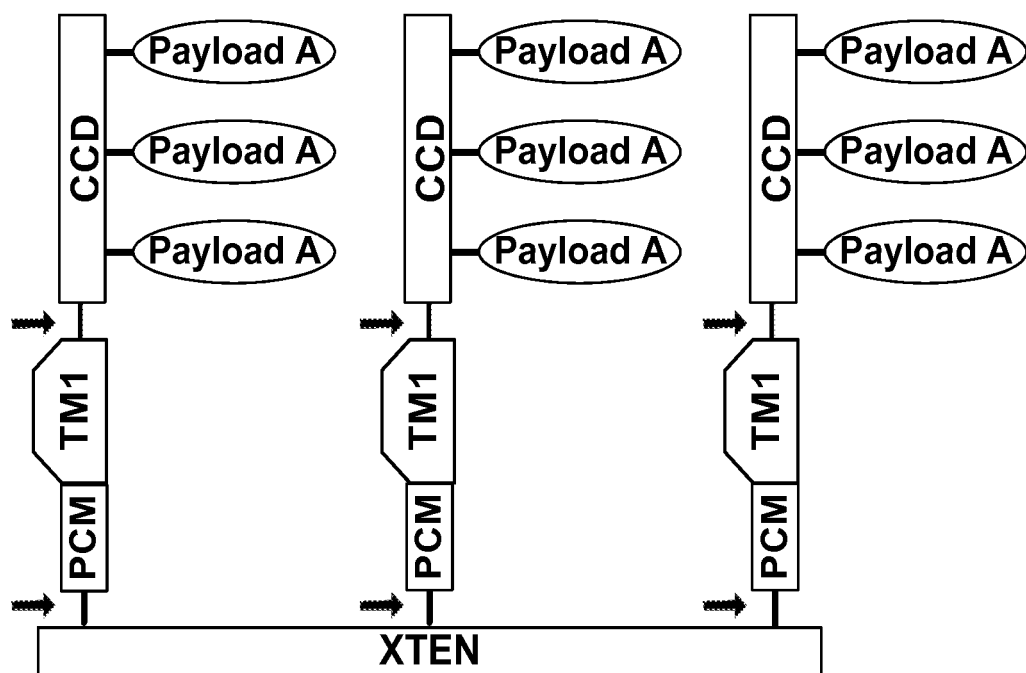


FIG. 49

FIG. 50A

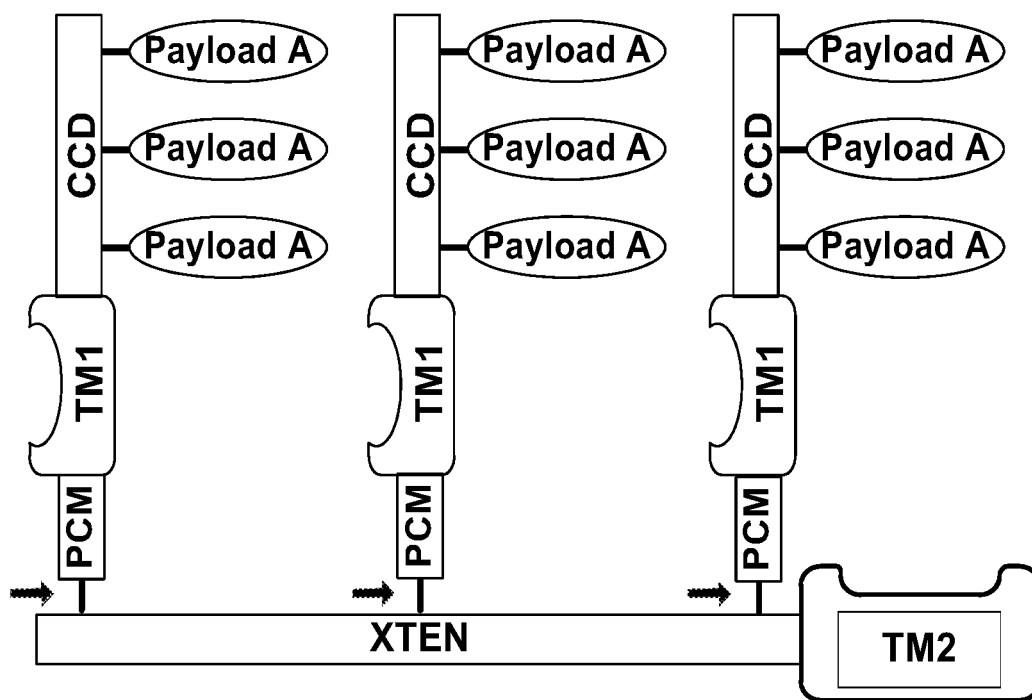


FIG. 50B

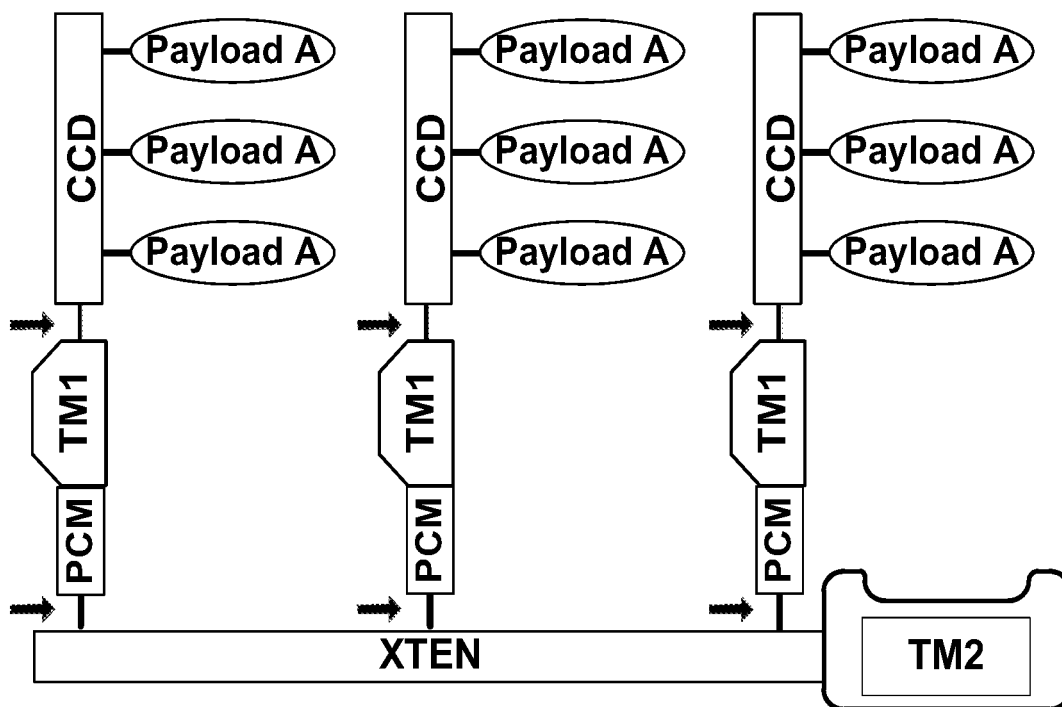


FIG. 50

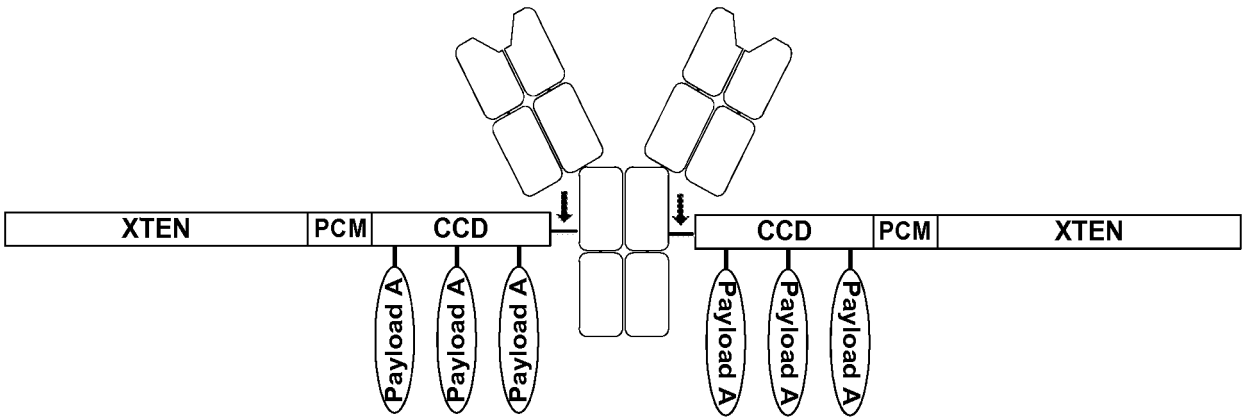


FIG. 51

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FIG. 52A

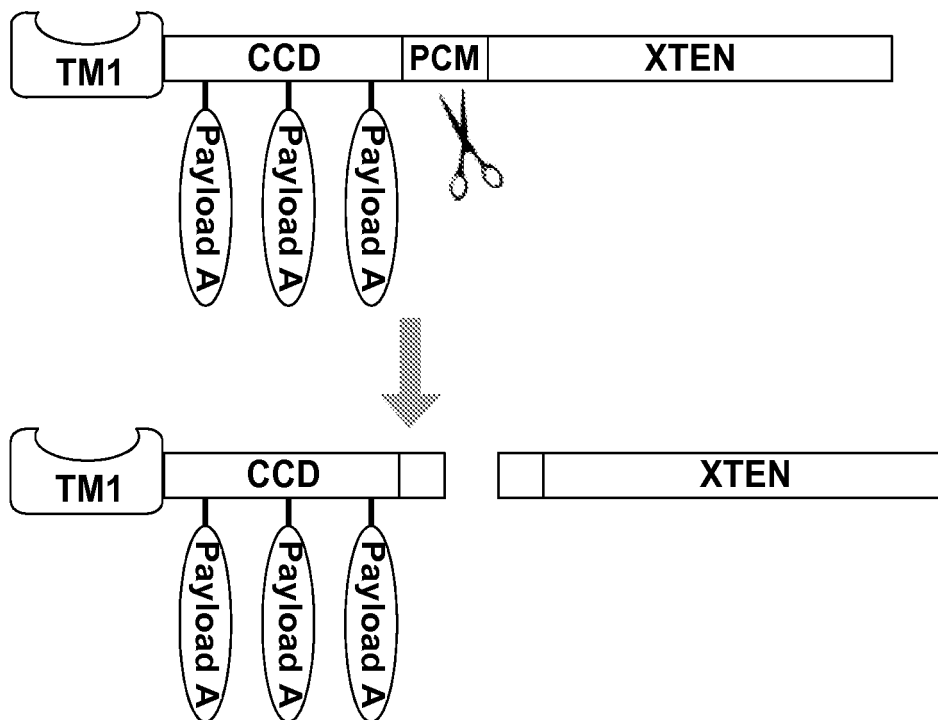


FIG. 52B

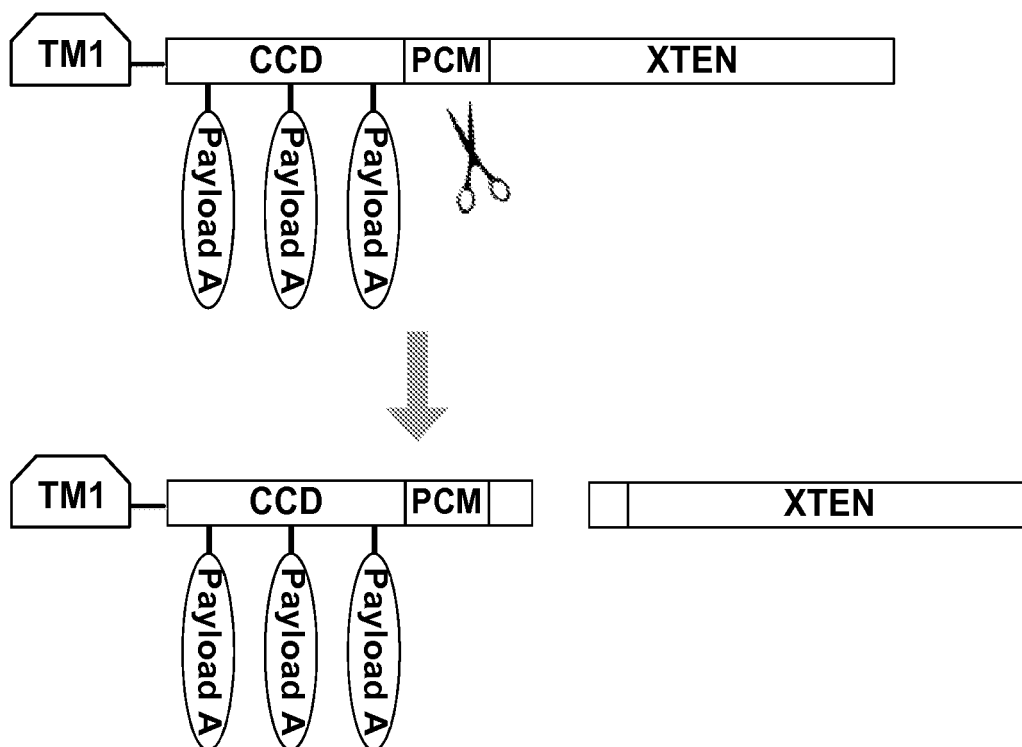


FIG. 52

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FIG. 53A

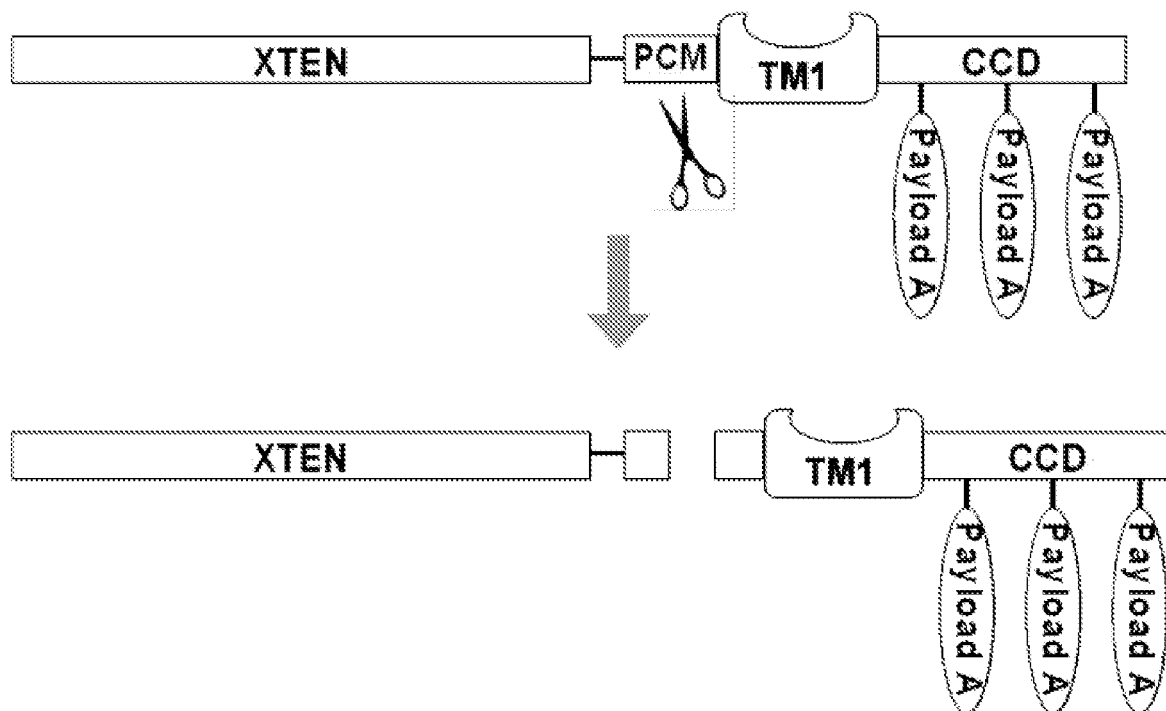


FIG. 53B

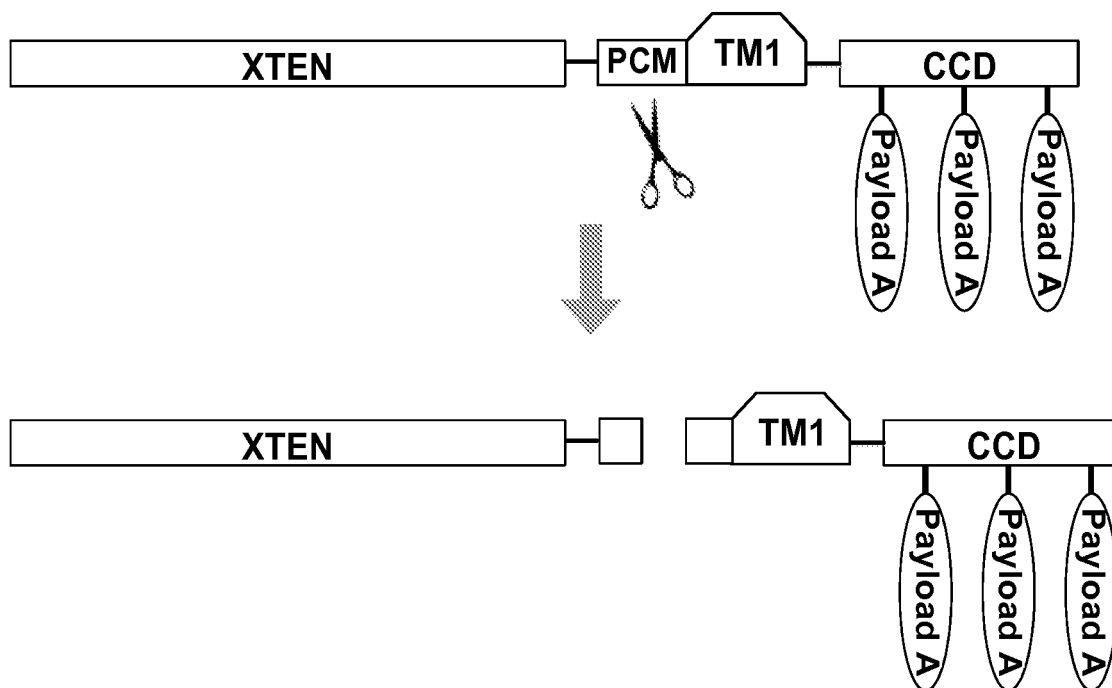


FIG. 53

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FIG. 54A

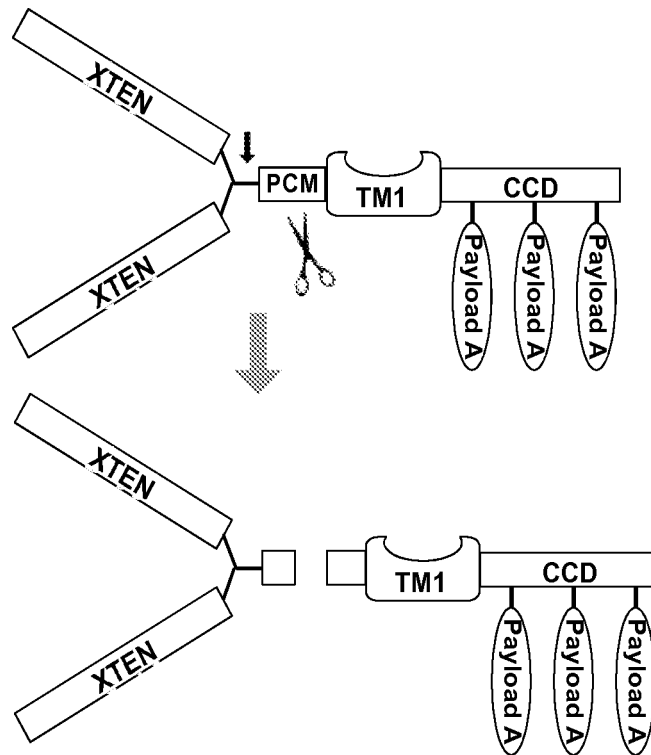


FIG. 54B

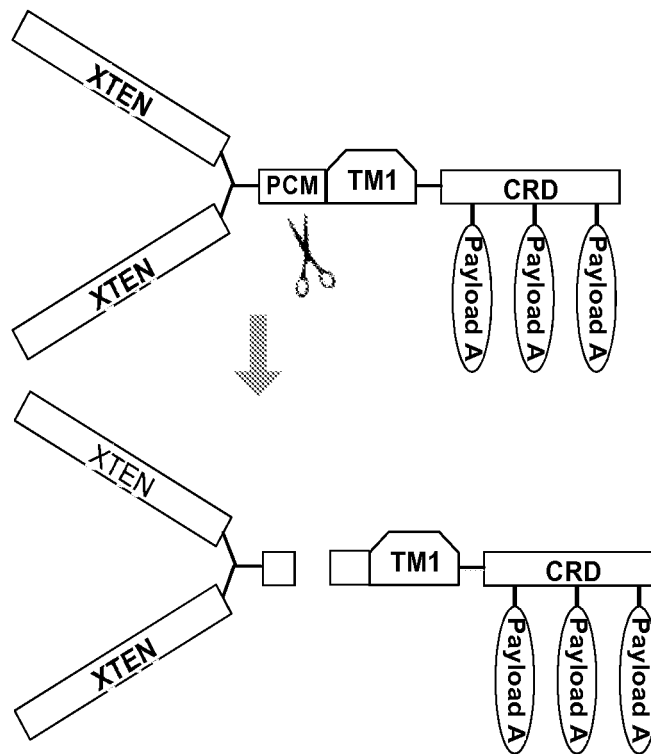


FIG. 54

FIG. 55A

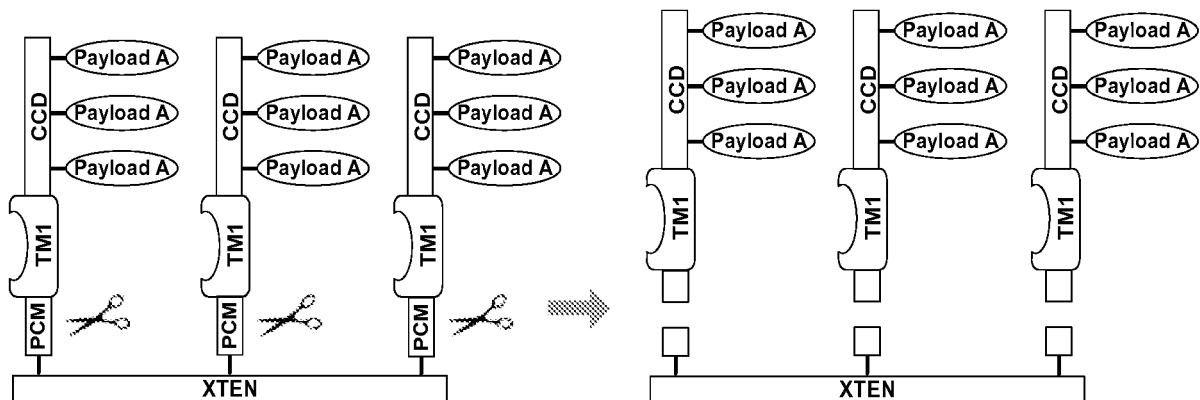


FIG. 55B

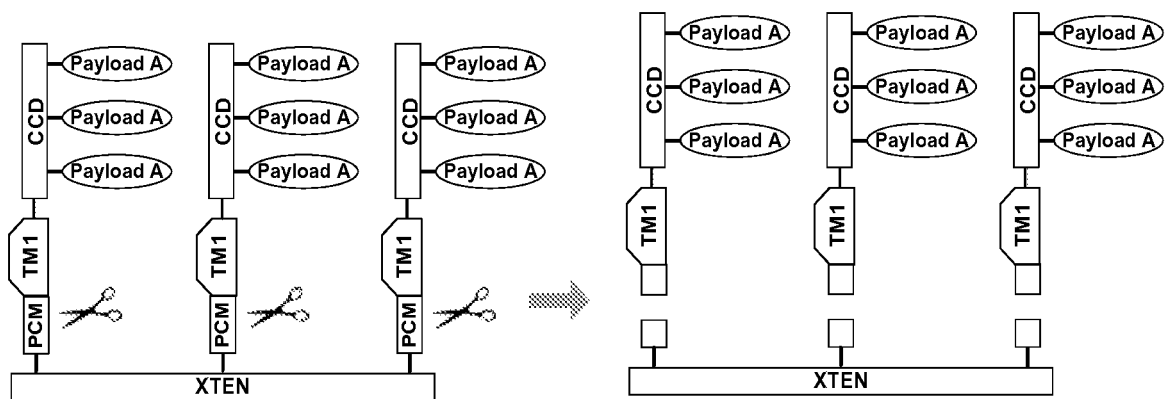


FIG. 55

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FIG. 56A

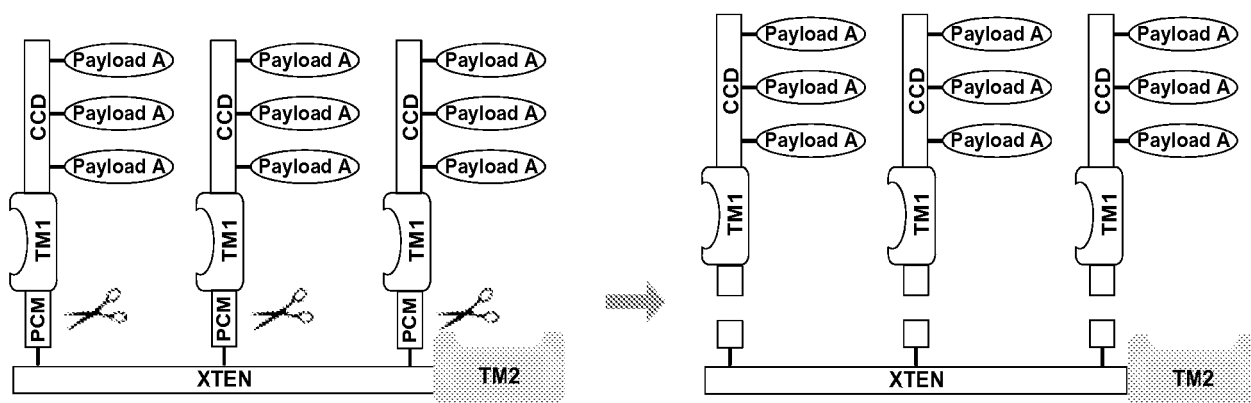


FIG. 56B

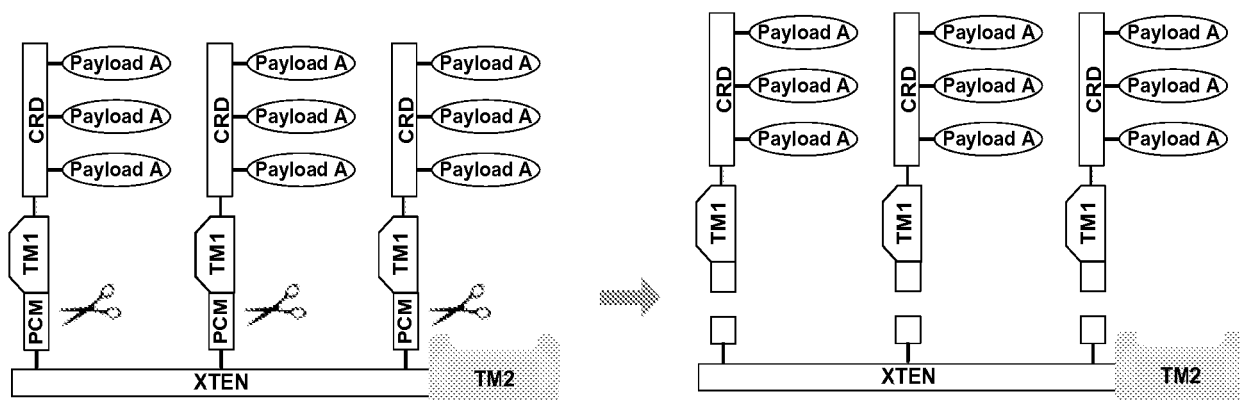


FIG. 56

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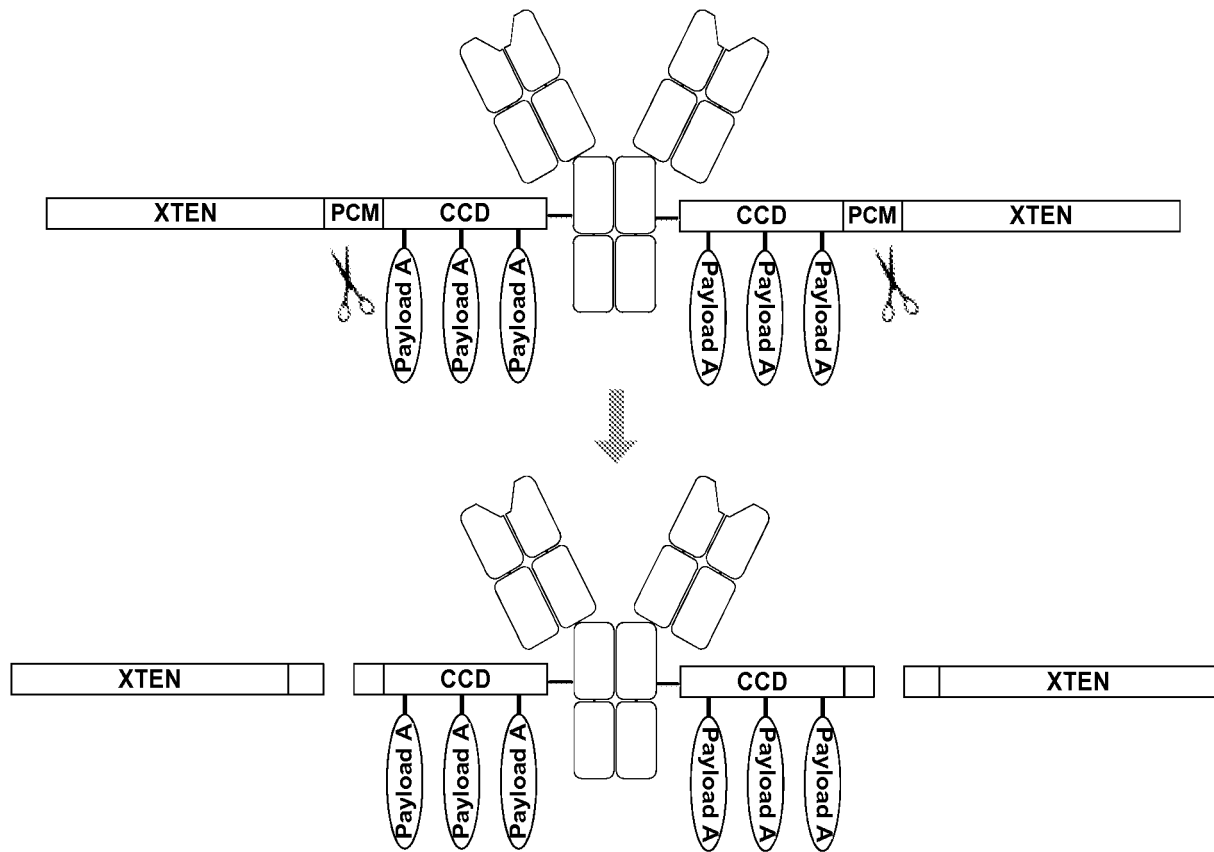


FIG. 57

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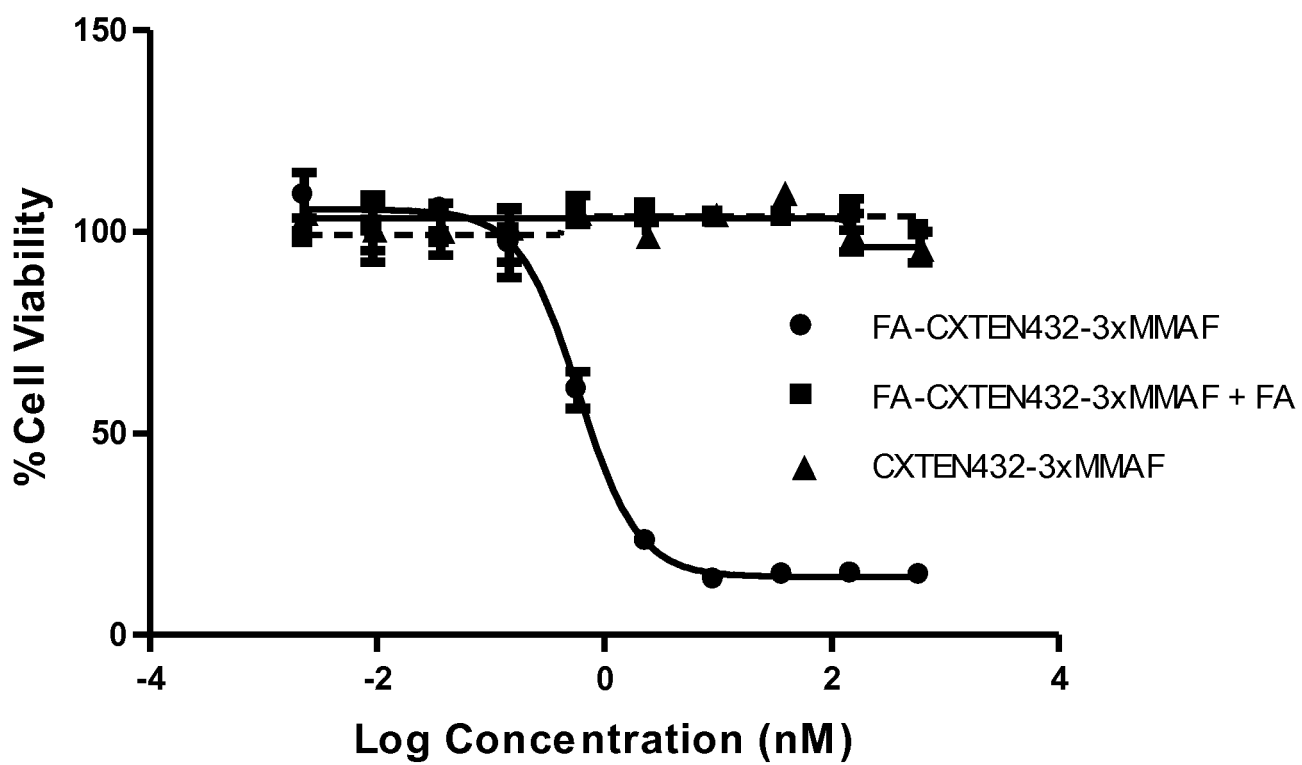


FIG. 58

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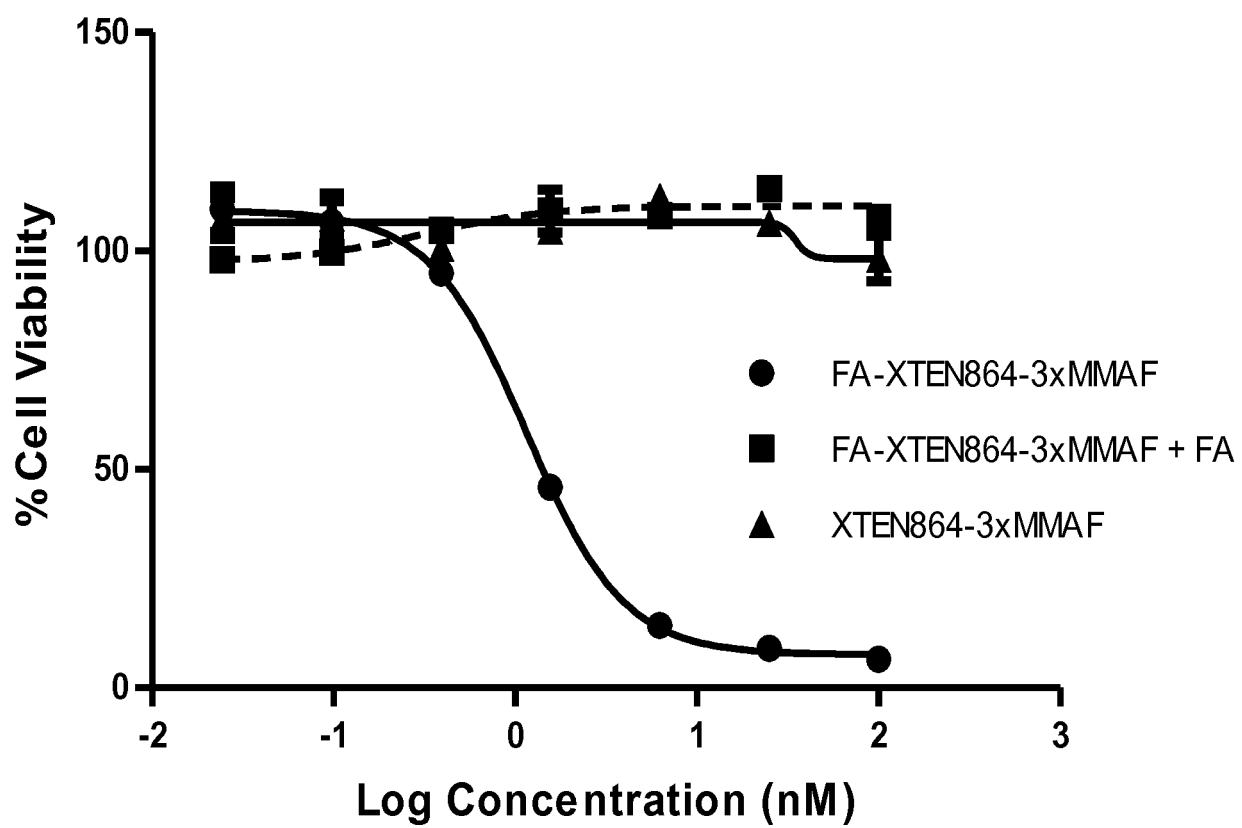


FIG. 59

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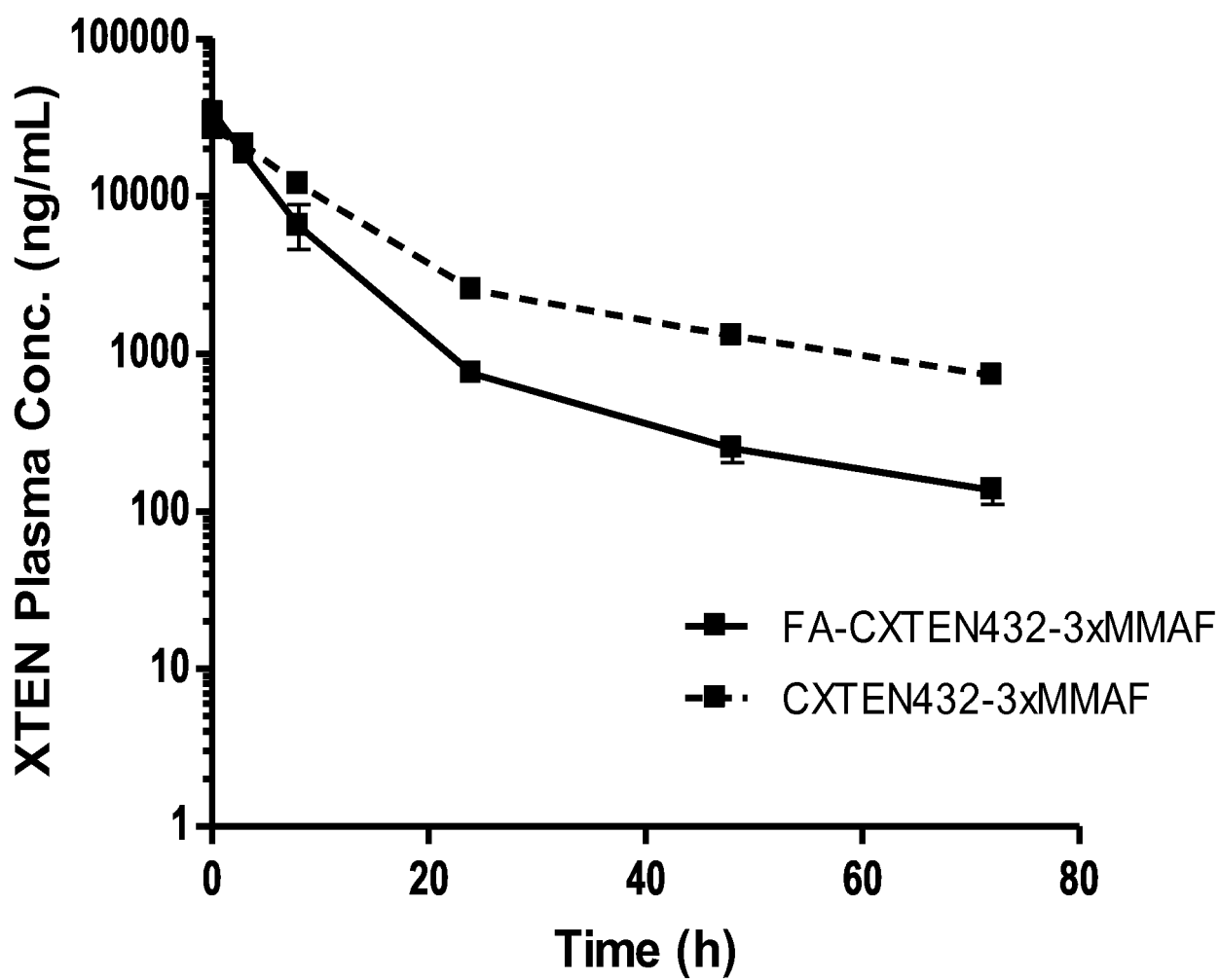


FIG. 60

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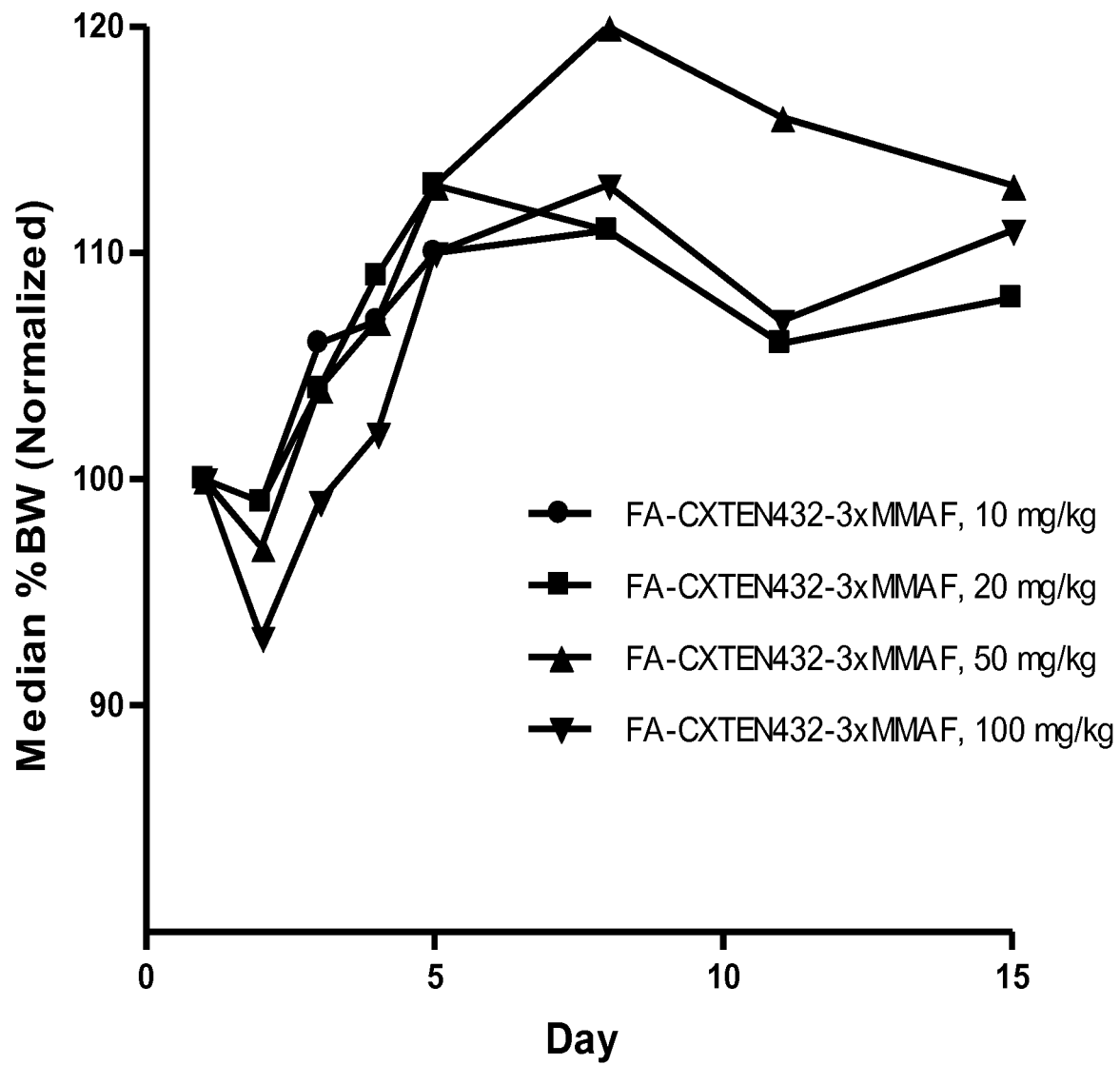


FIG. 61

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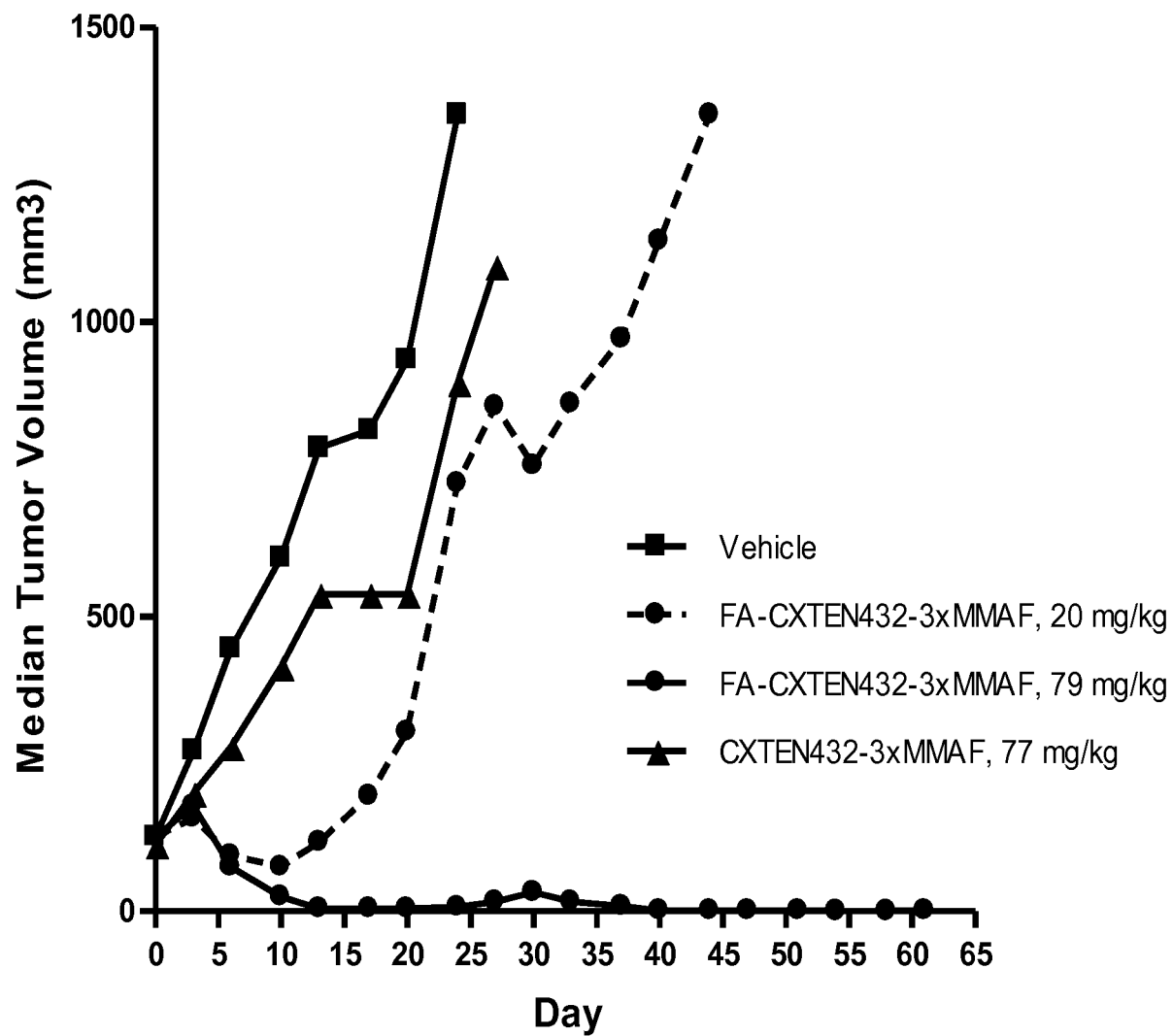


FIG. 62

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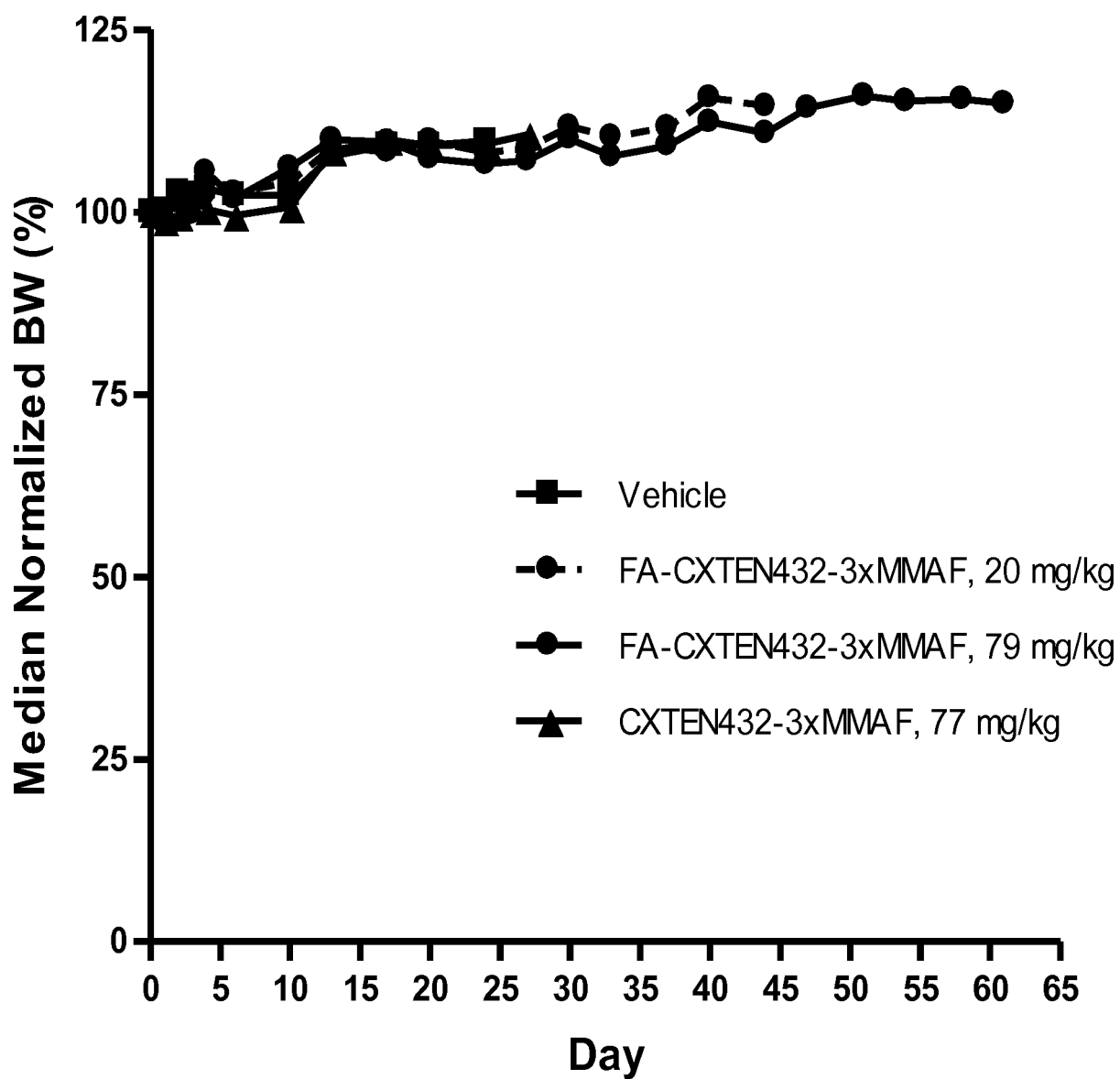


FIG. 63

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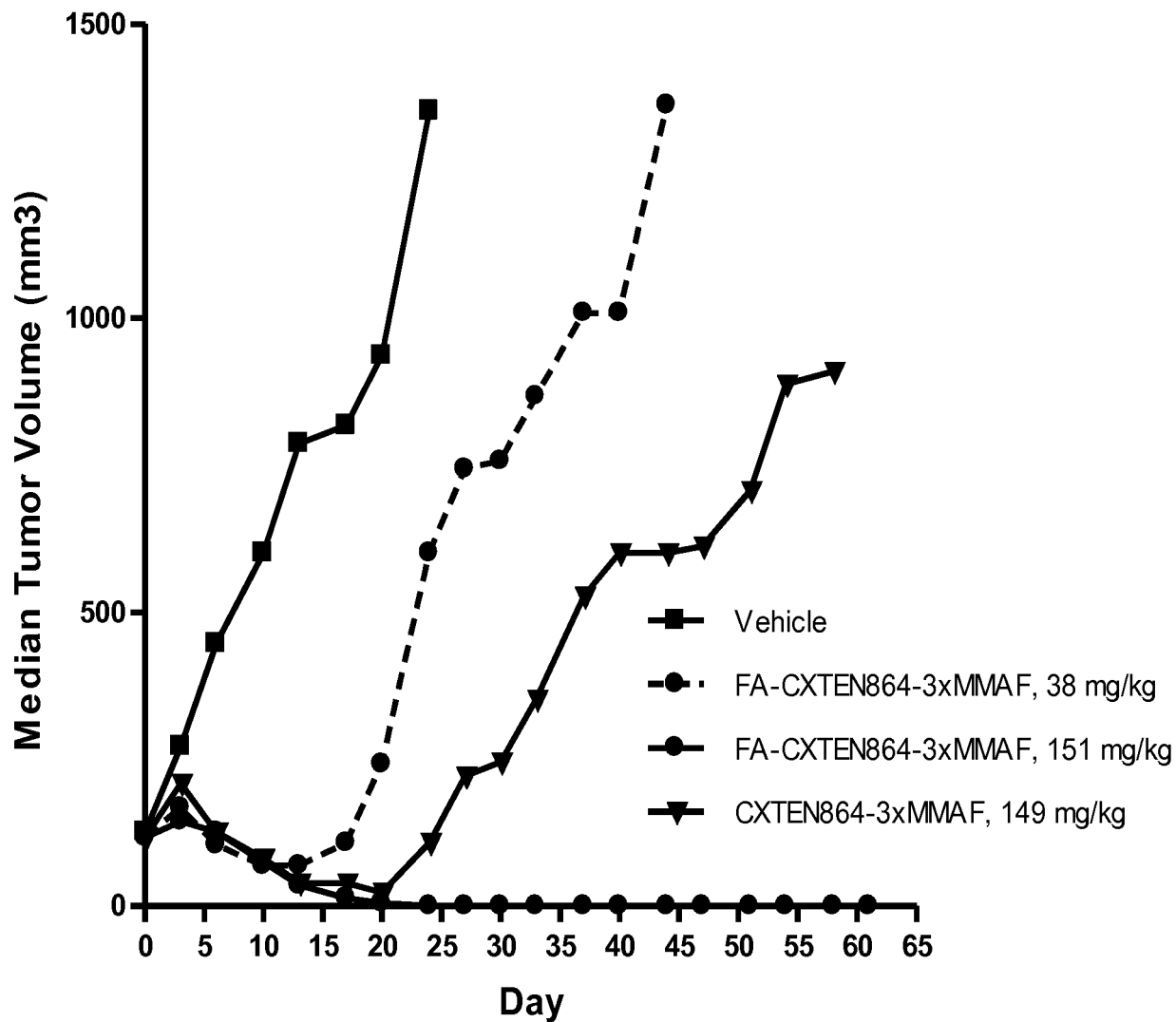


FIG. 64

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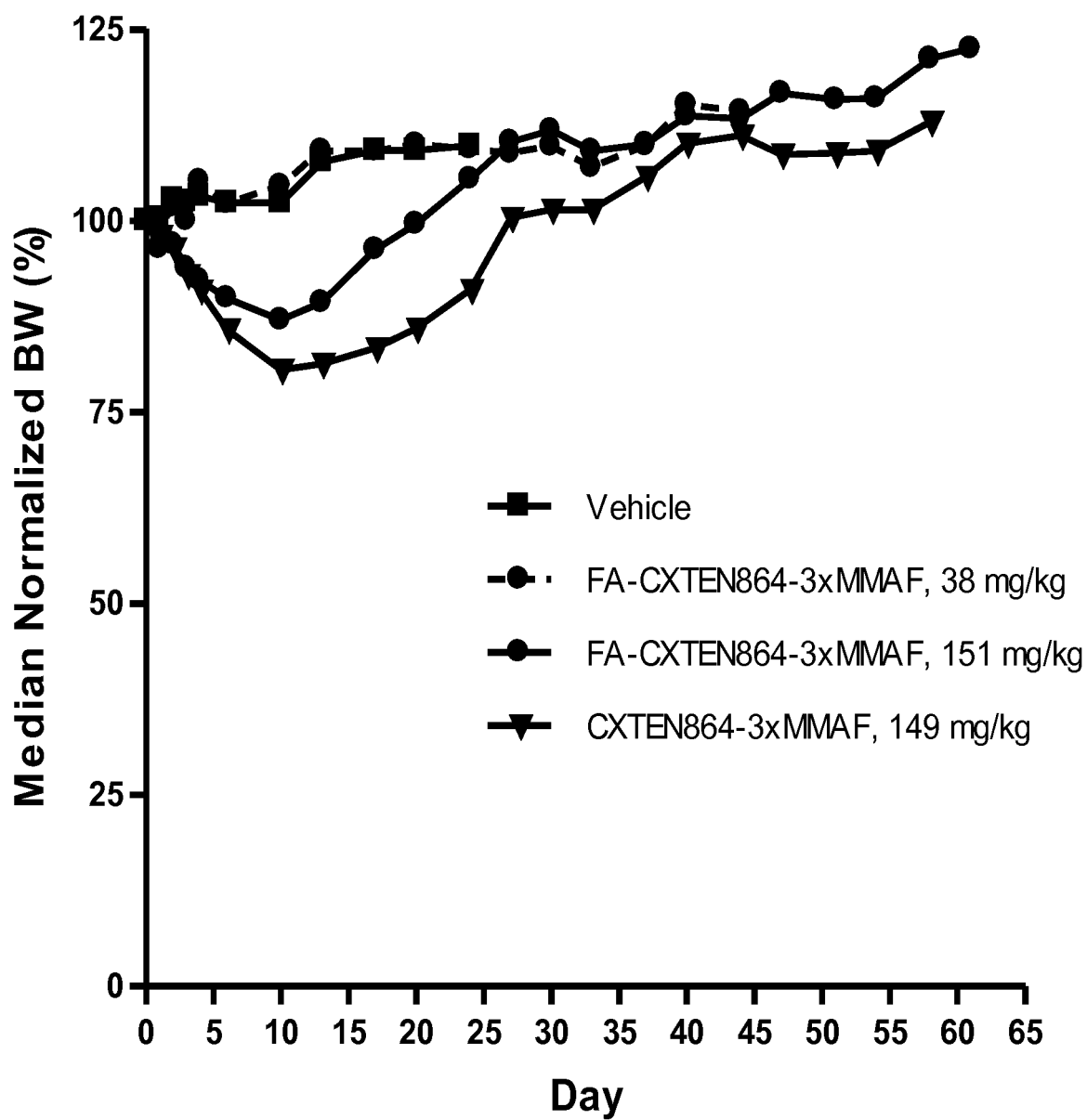


FIG. 65

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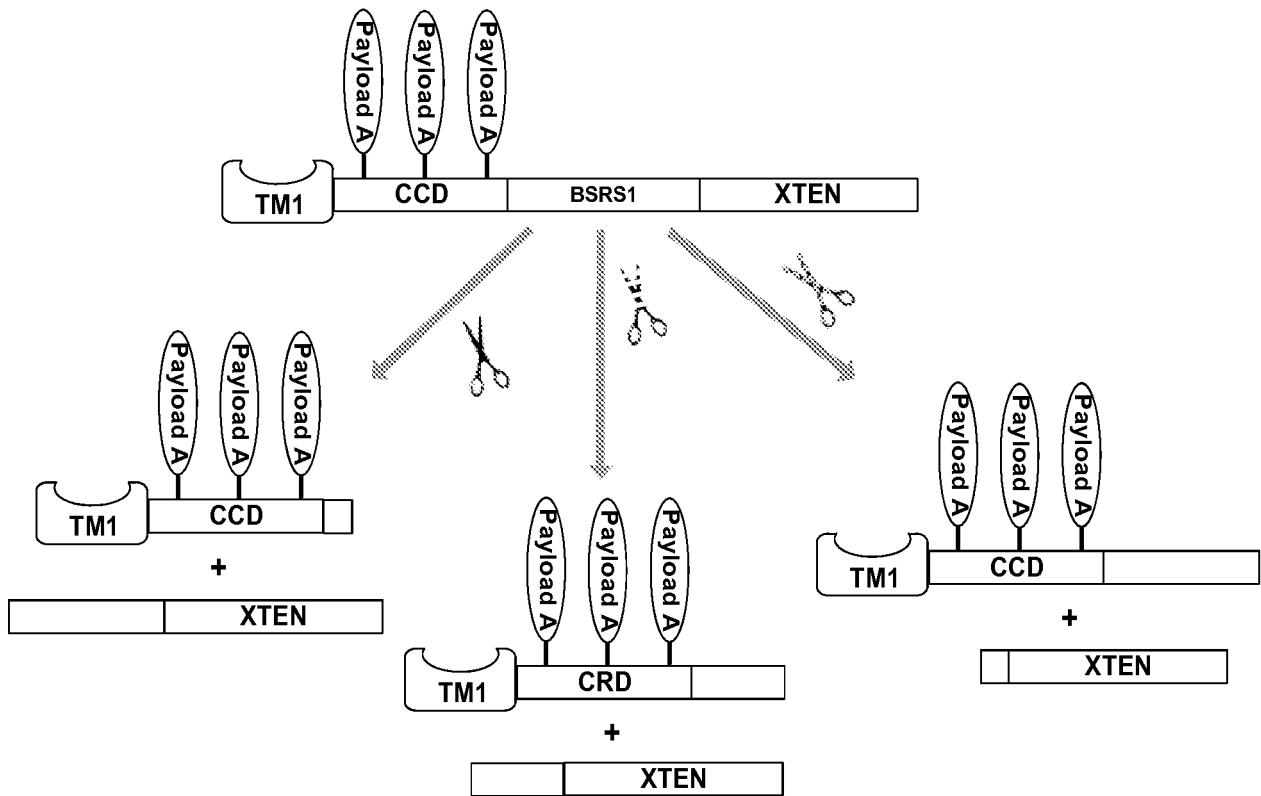


FIG. 66

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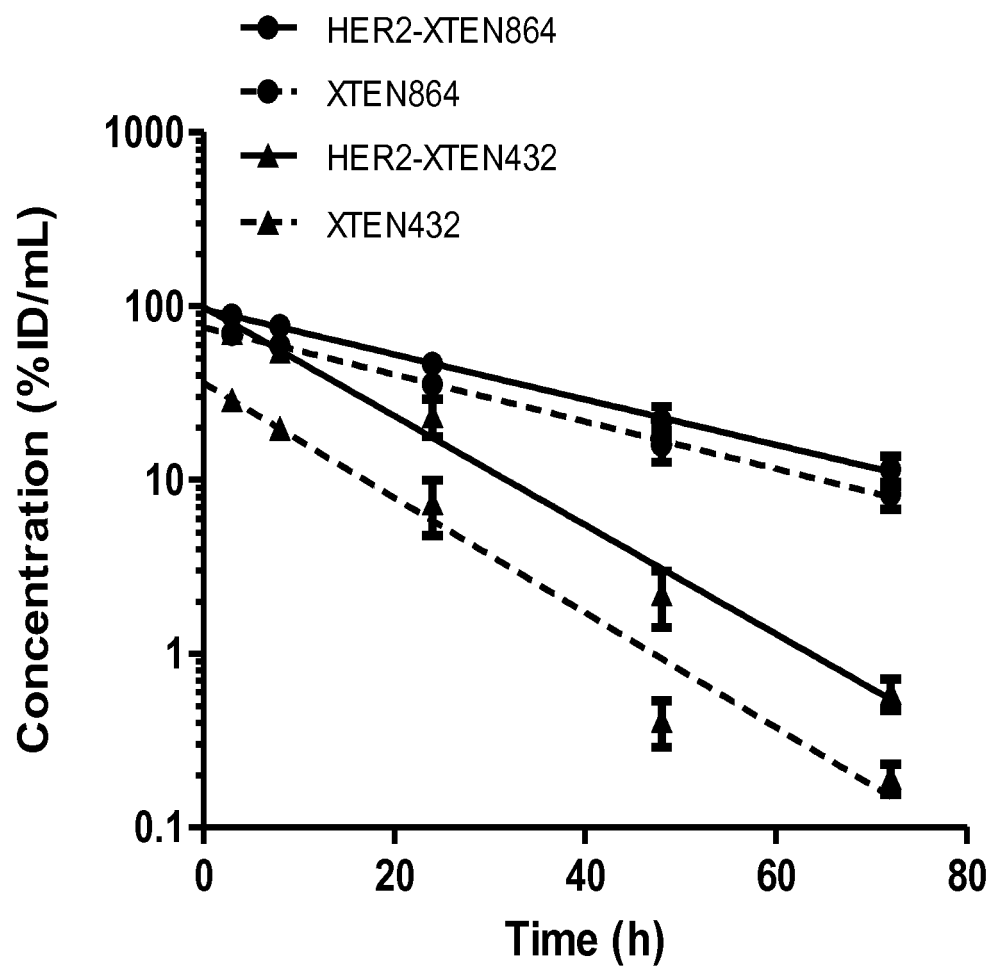


FIG. 67

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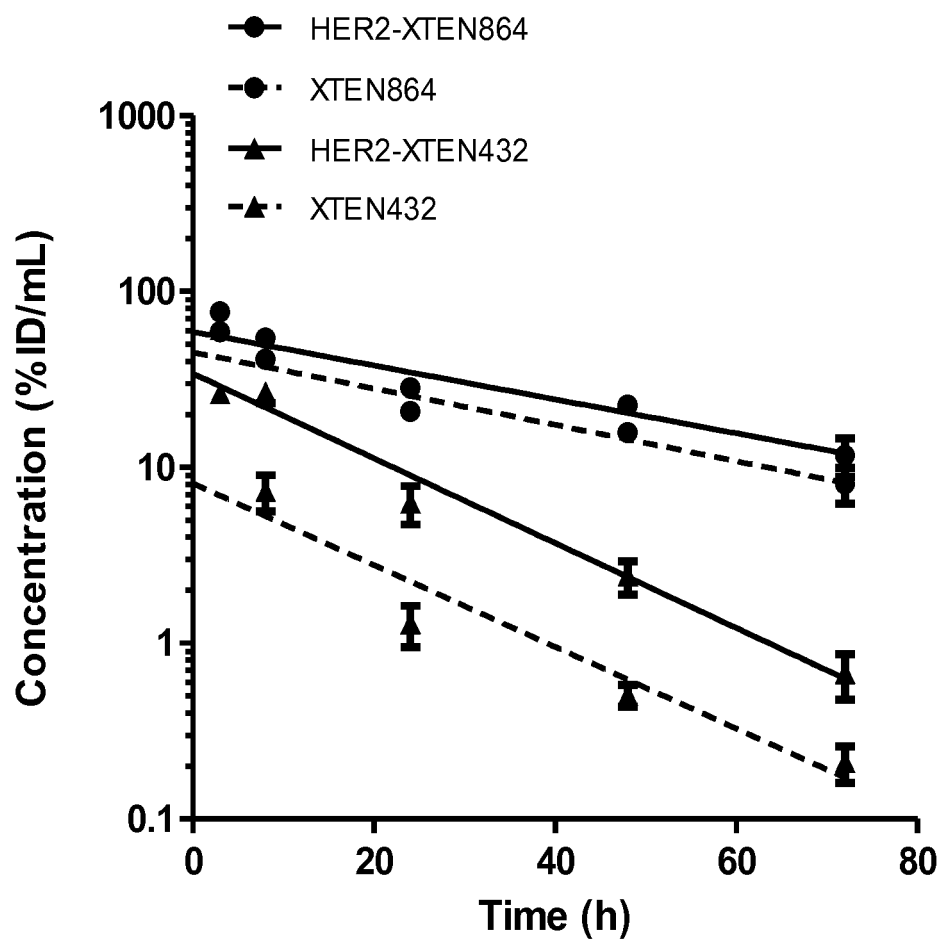


FIG. 68

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FIG. 69A

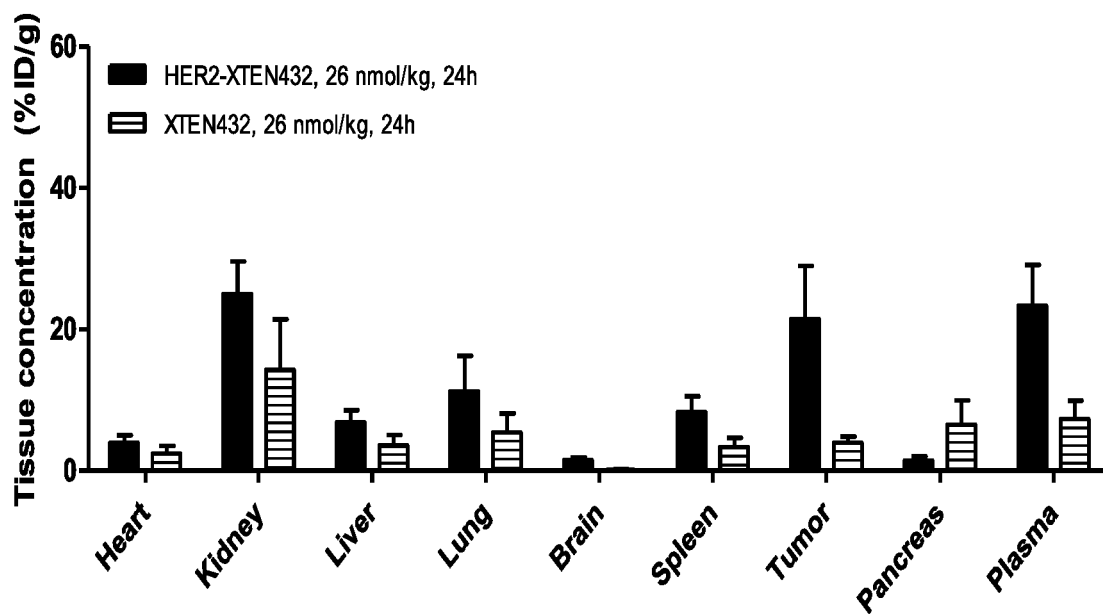


FIG. 69B

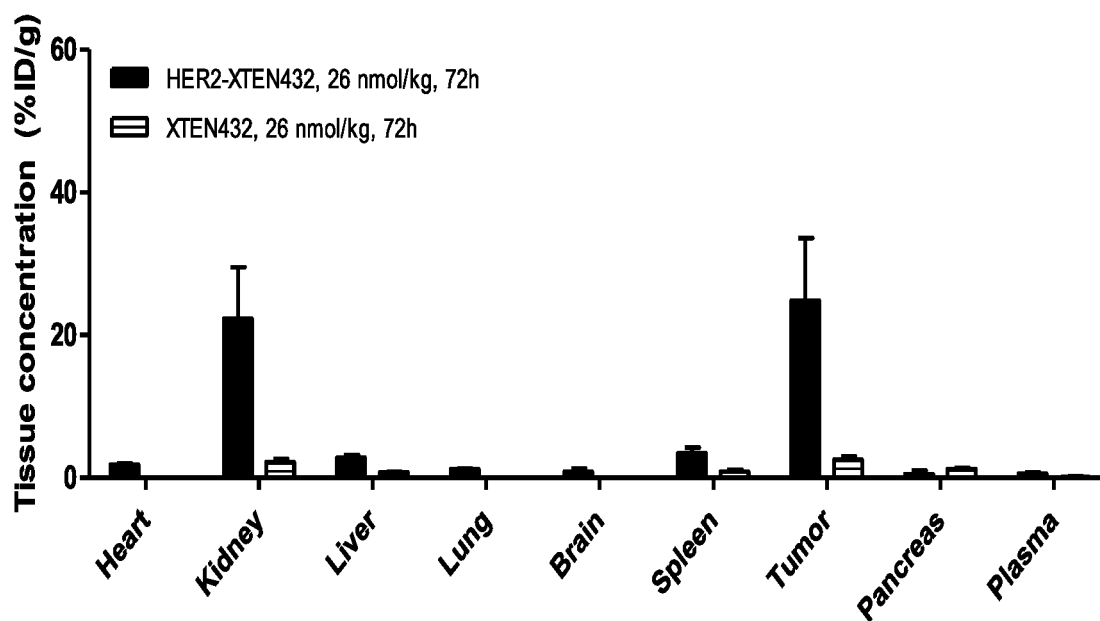


FIG. 69

FIG. 70A

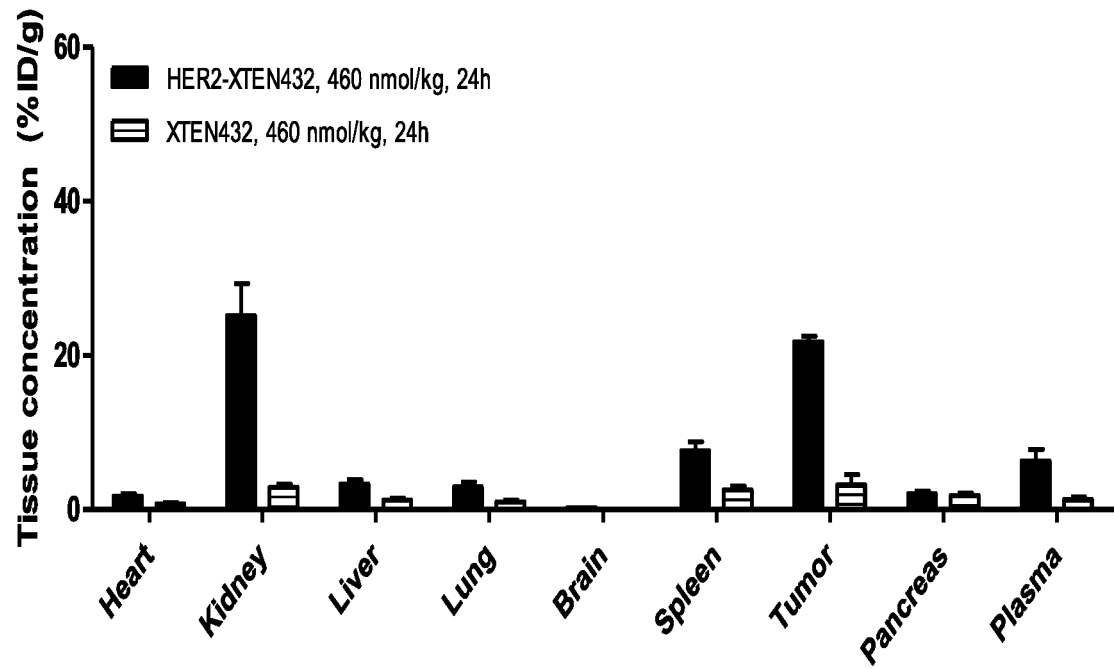


FIG. 70B

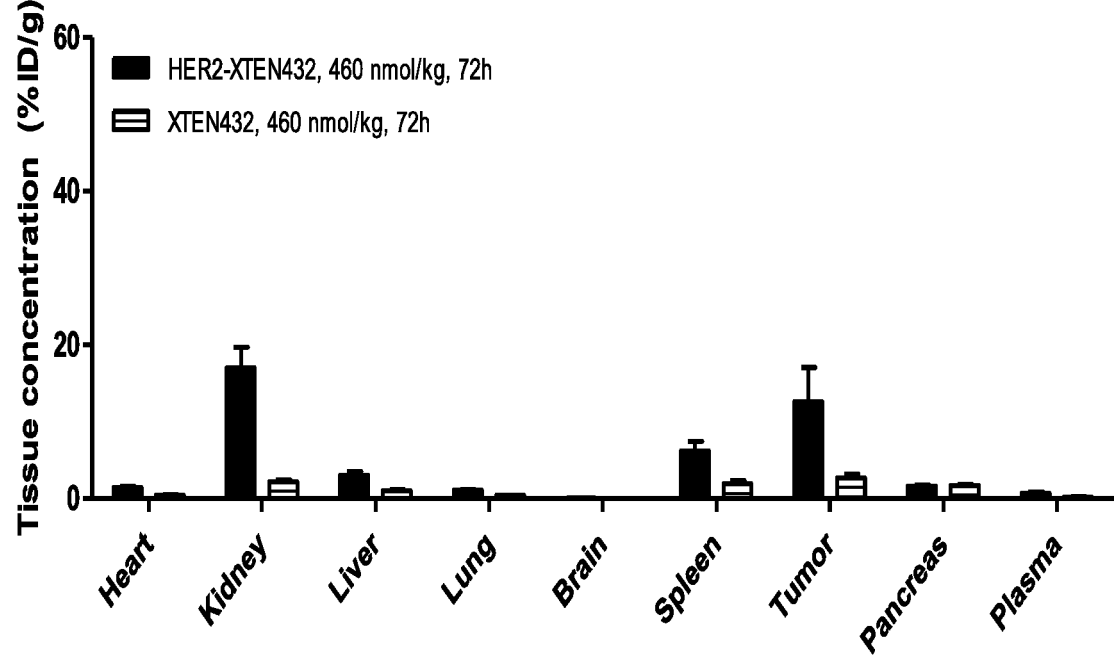


FIG. 70

FIG. 71A

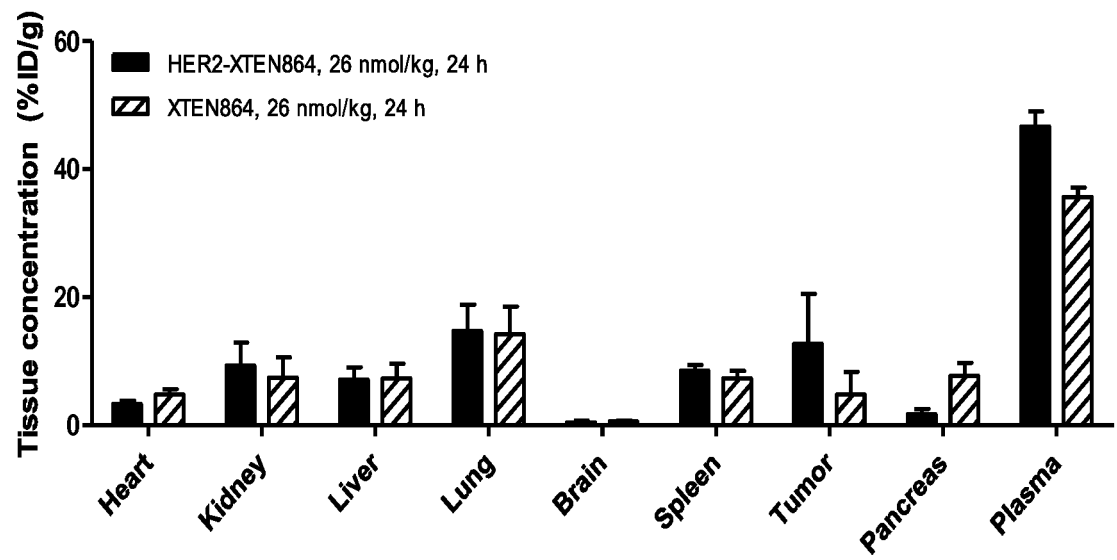


FIG. 71B

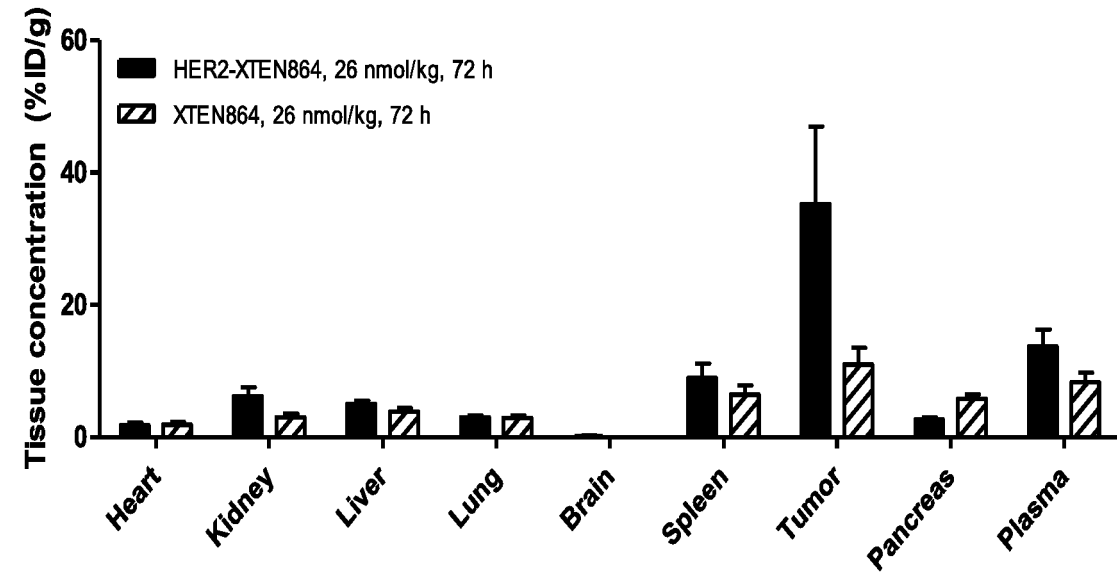


FIG. 71

FIG. 72A

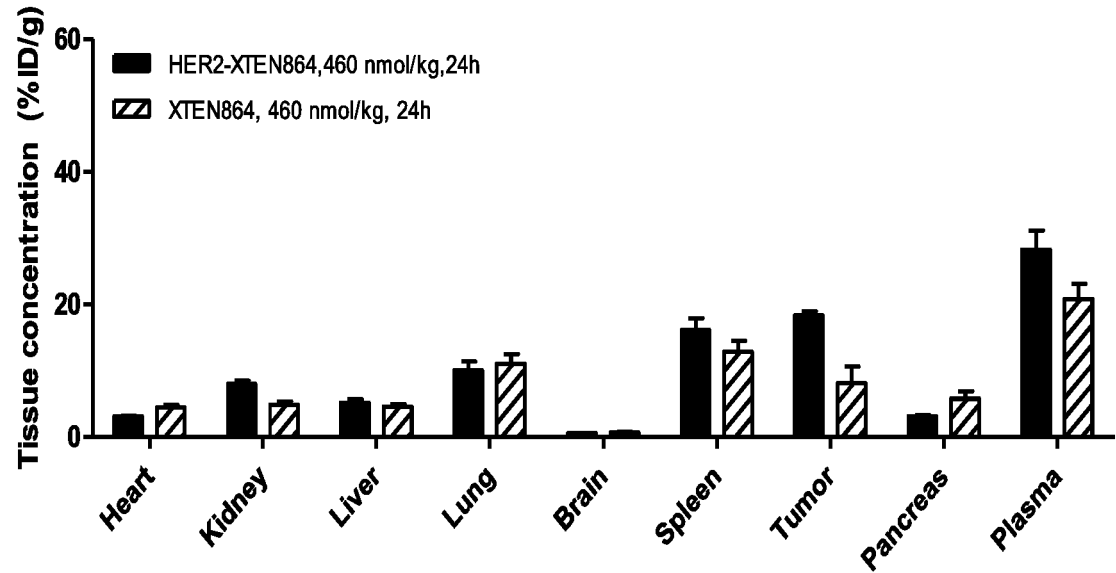


FIG. 72B

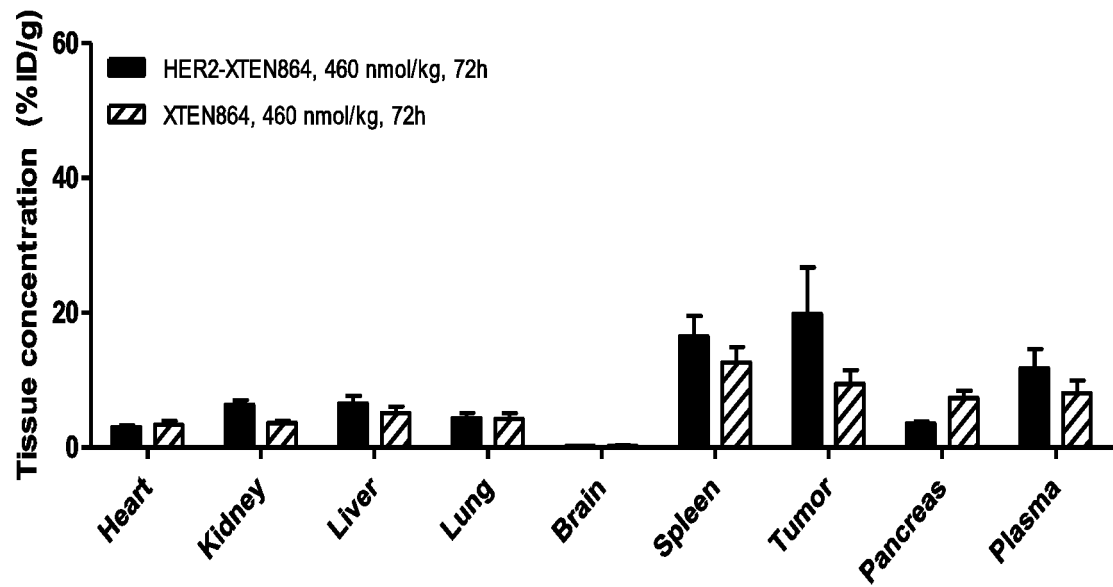


FIG. 72

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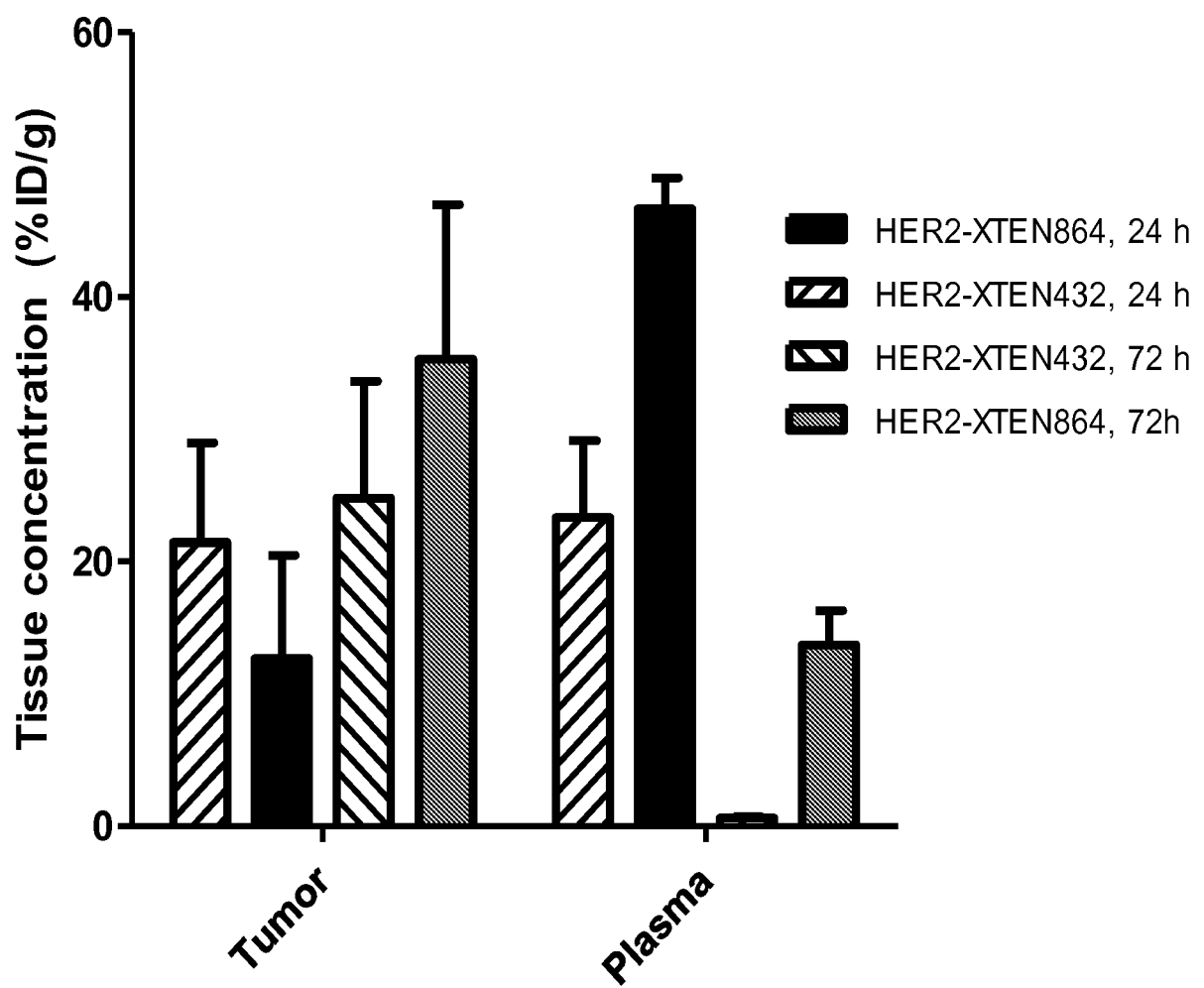


FIG. 73

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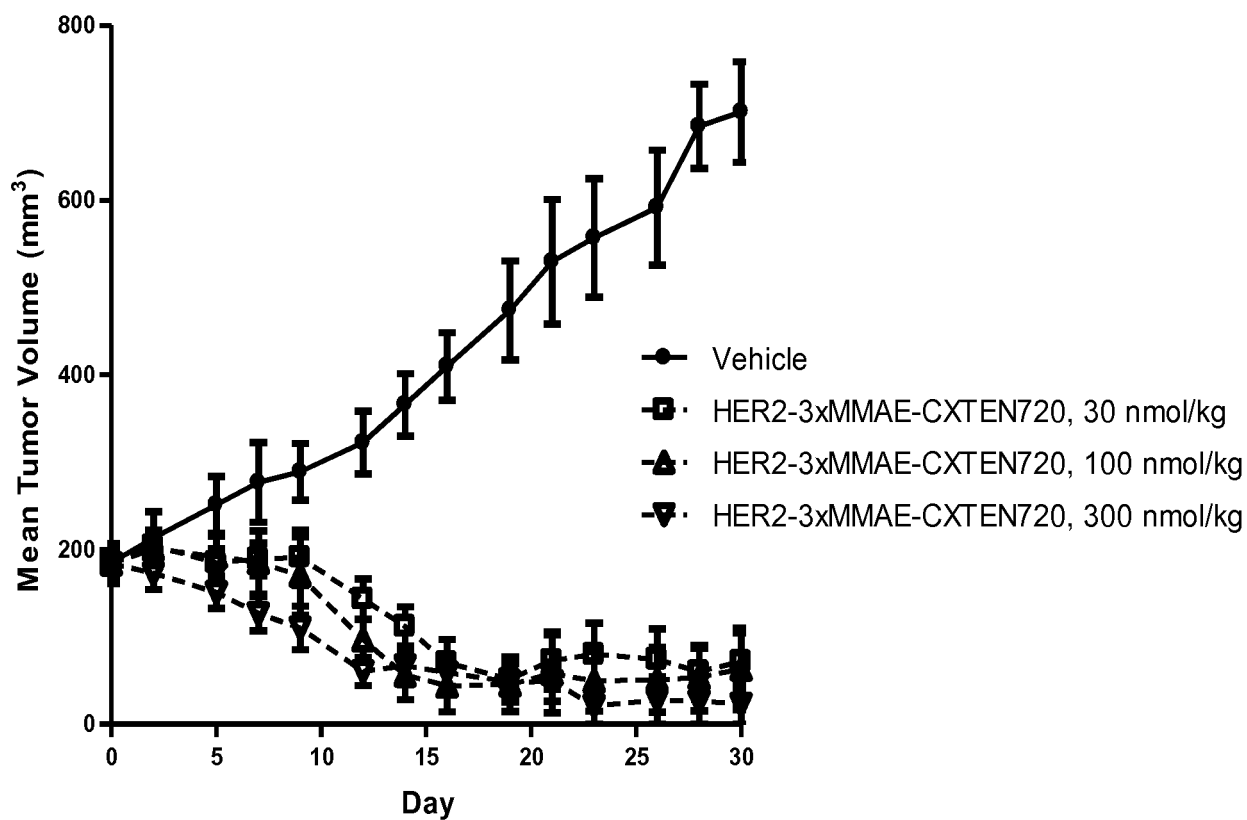


FIG. 74

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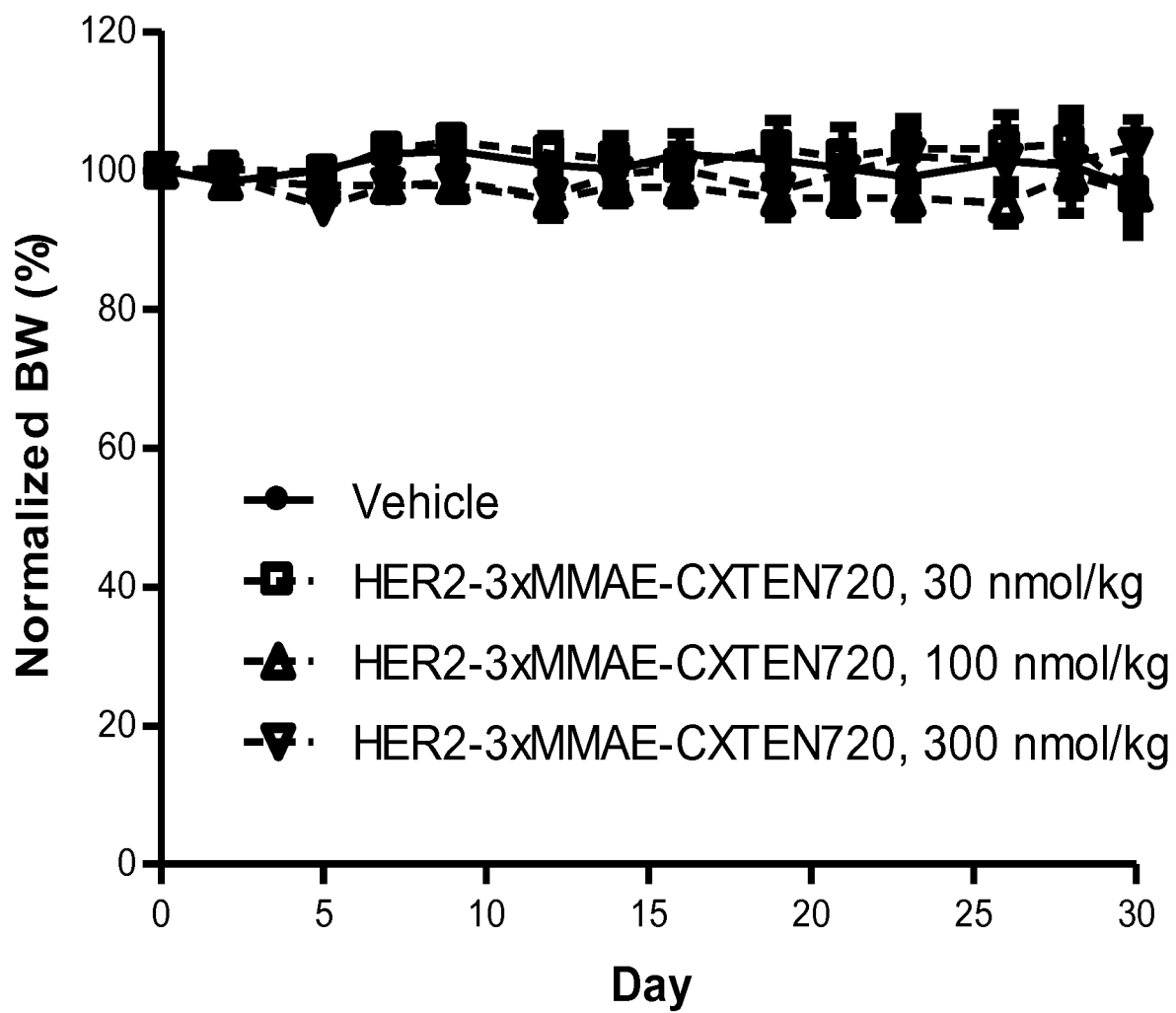


FIG. 75

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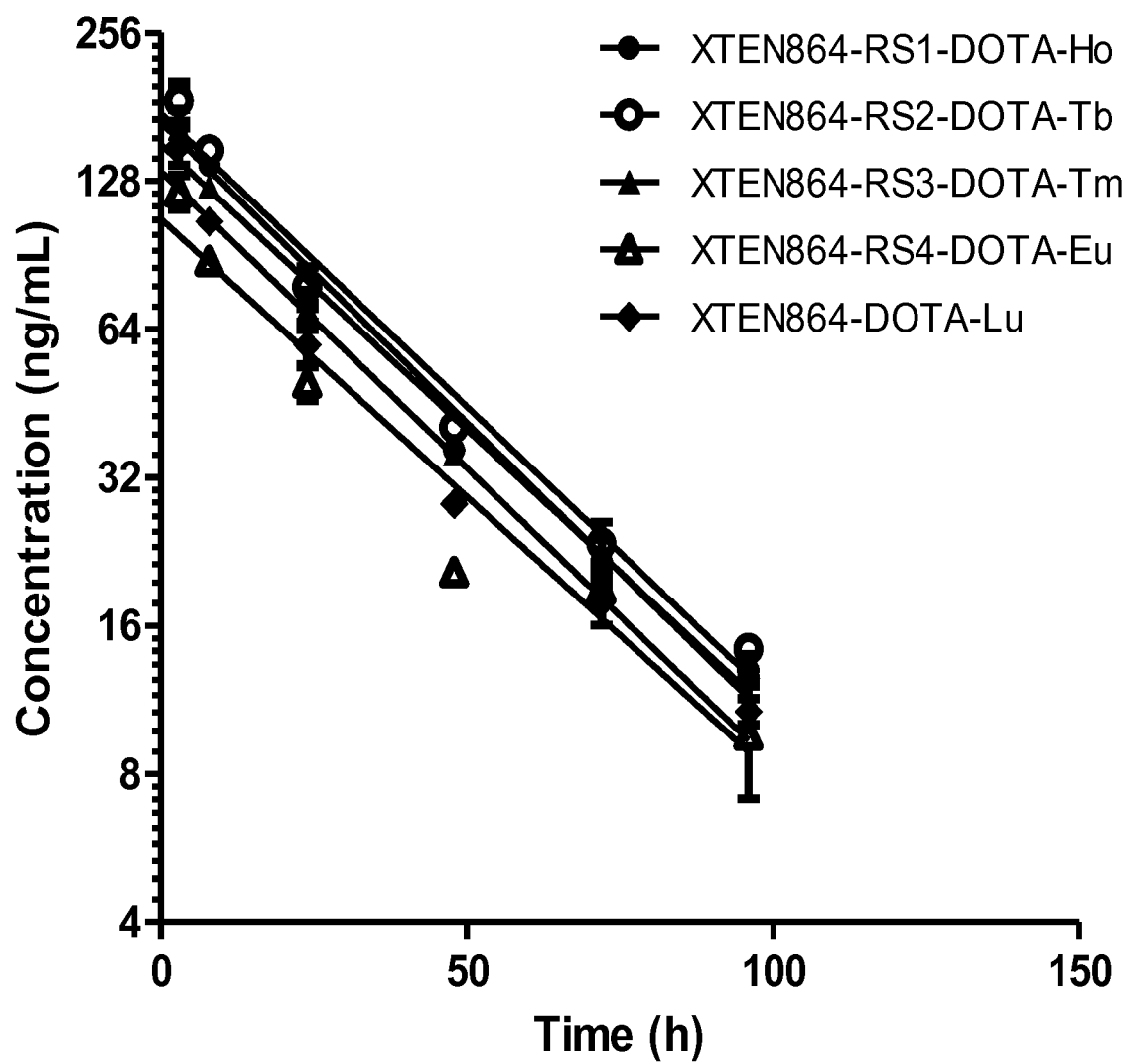


FIG. 76

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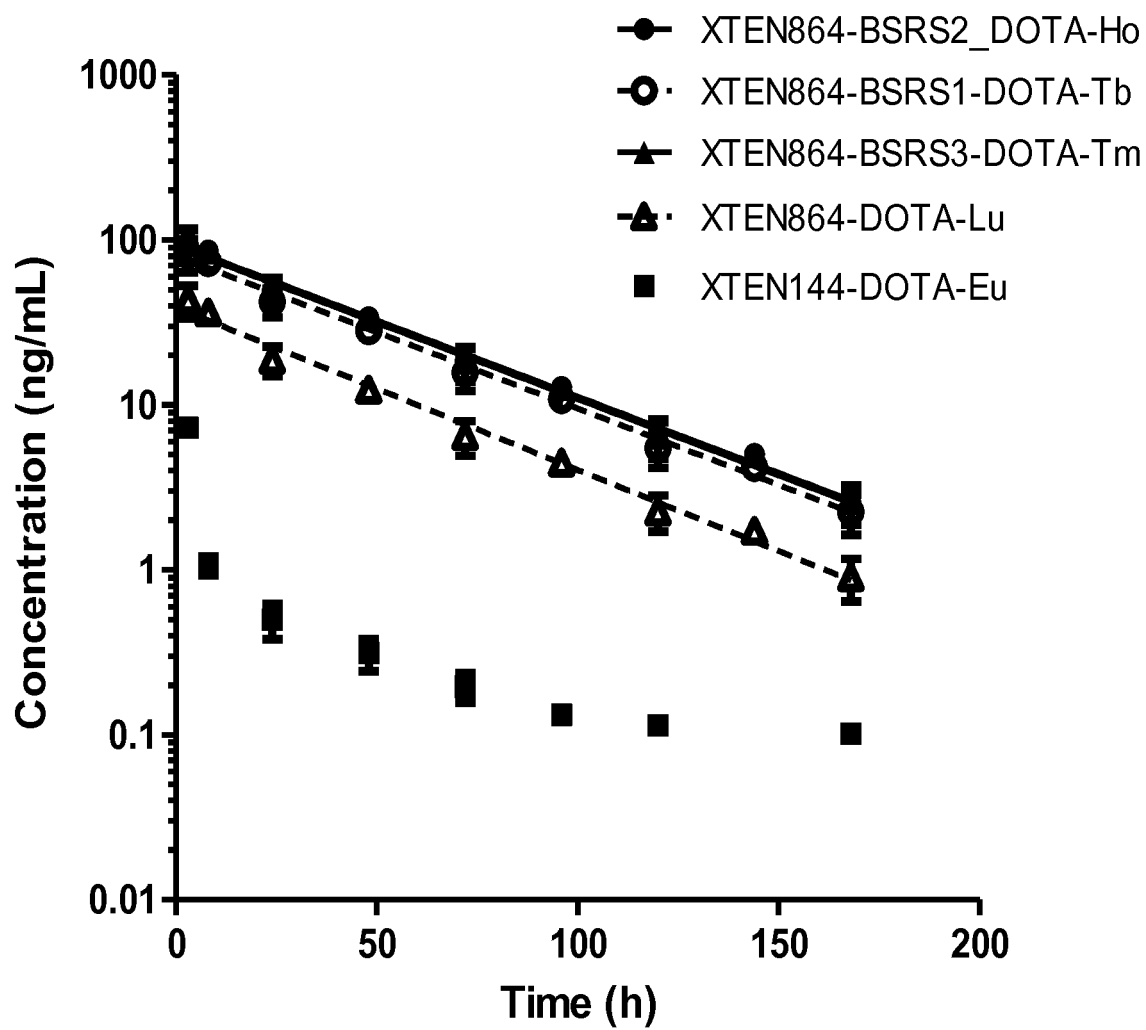


FIG. 77

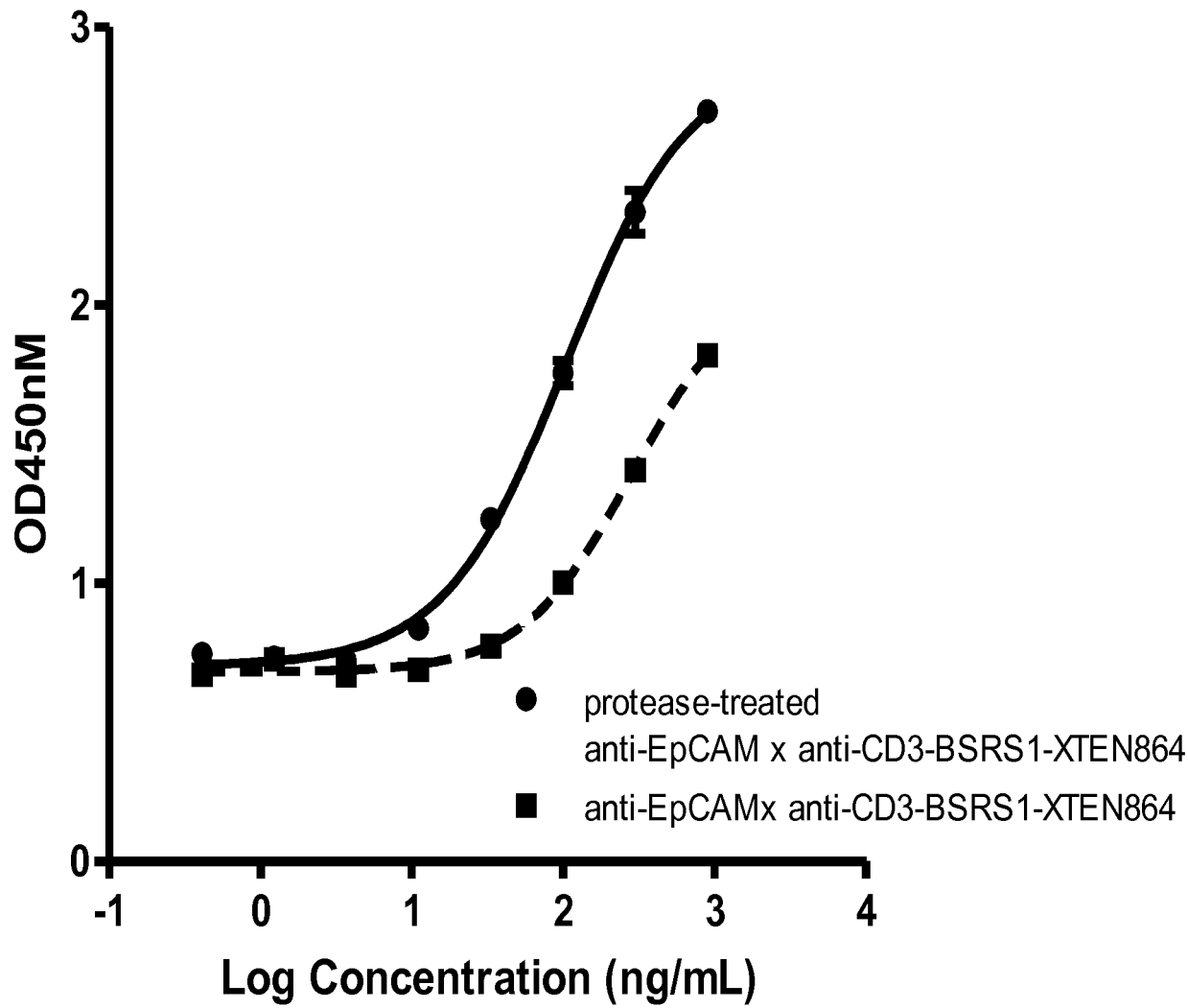


FIG. 78

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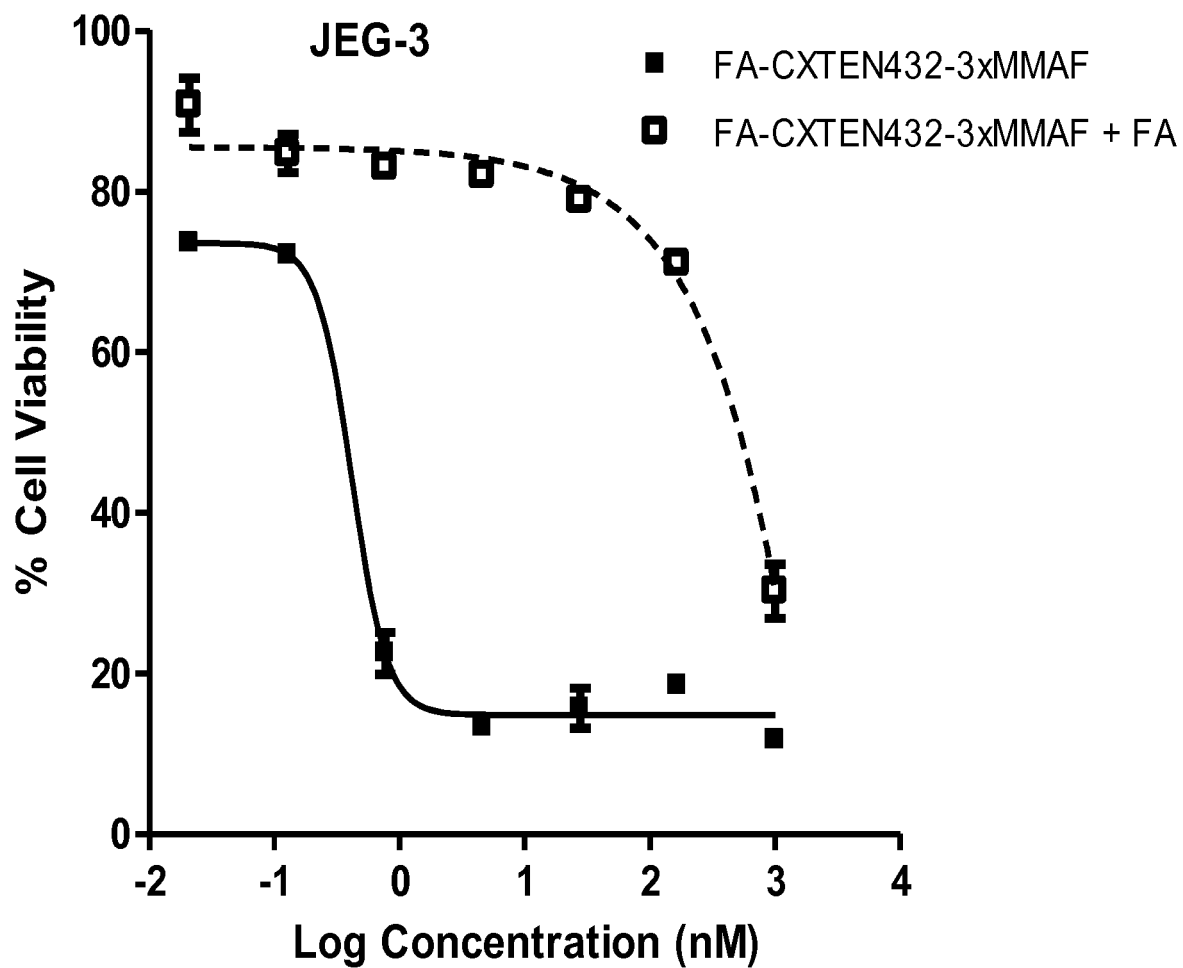
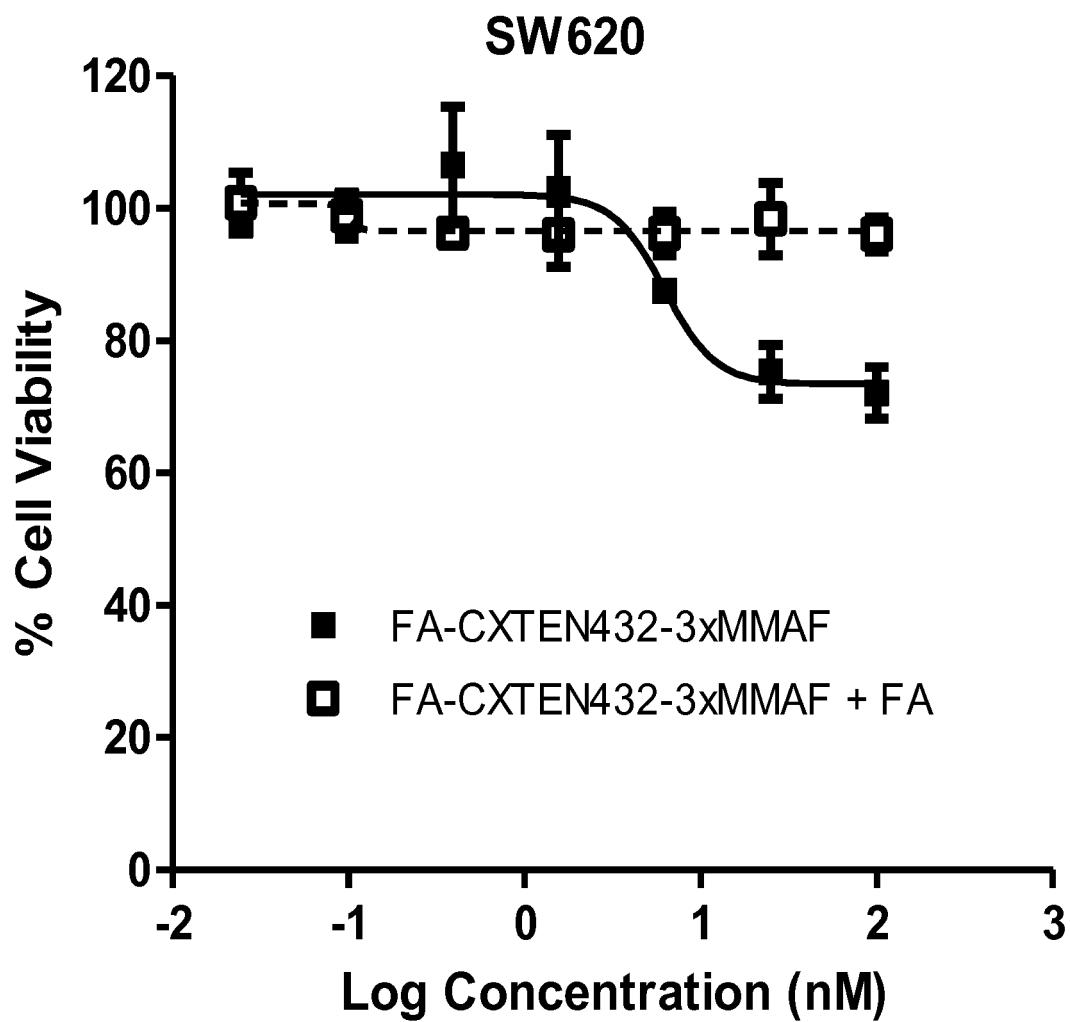


FIG. 79A

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**FIG. 79B**

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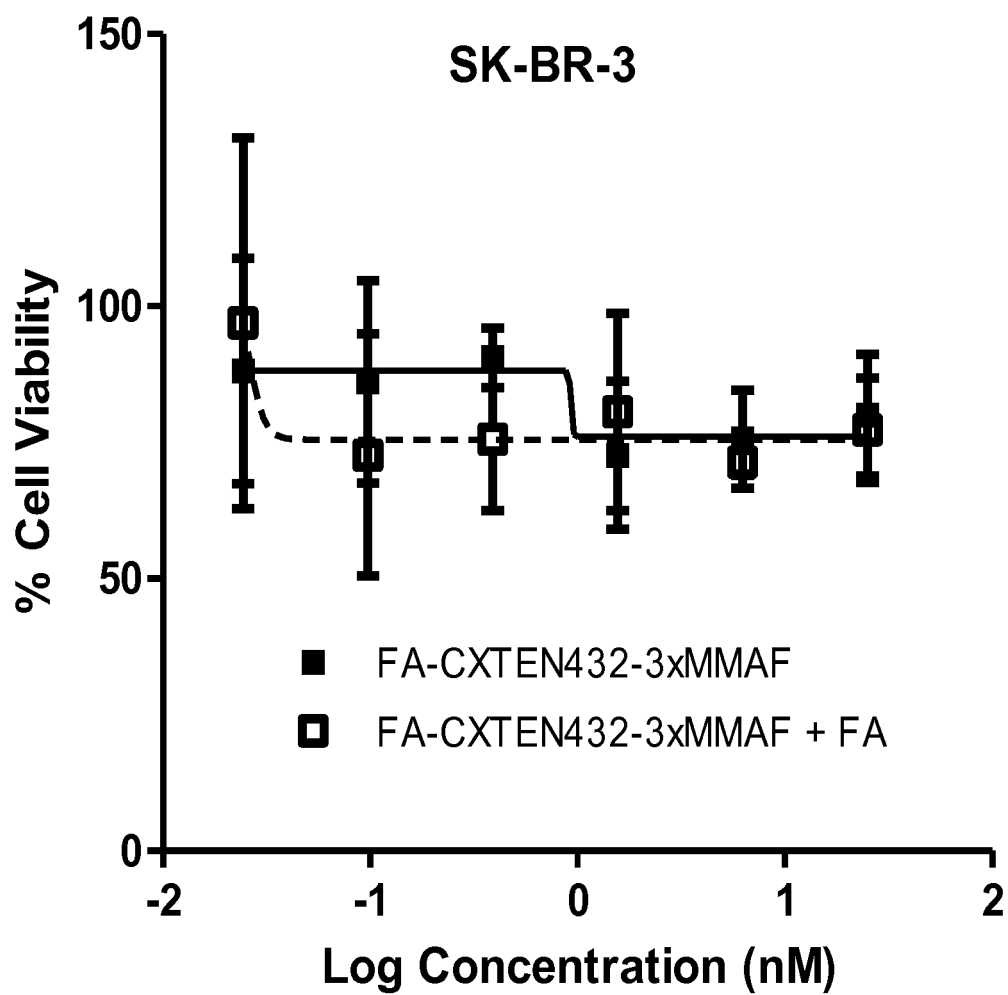


FIG. 79C

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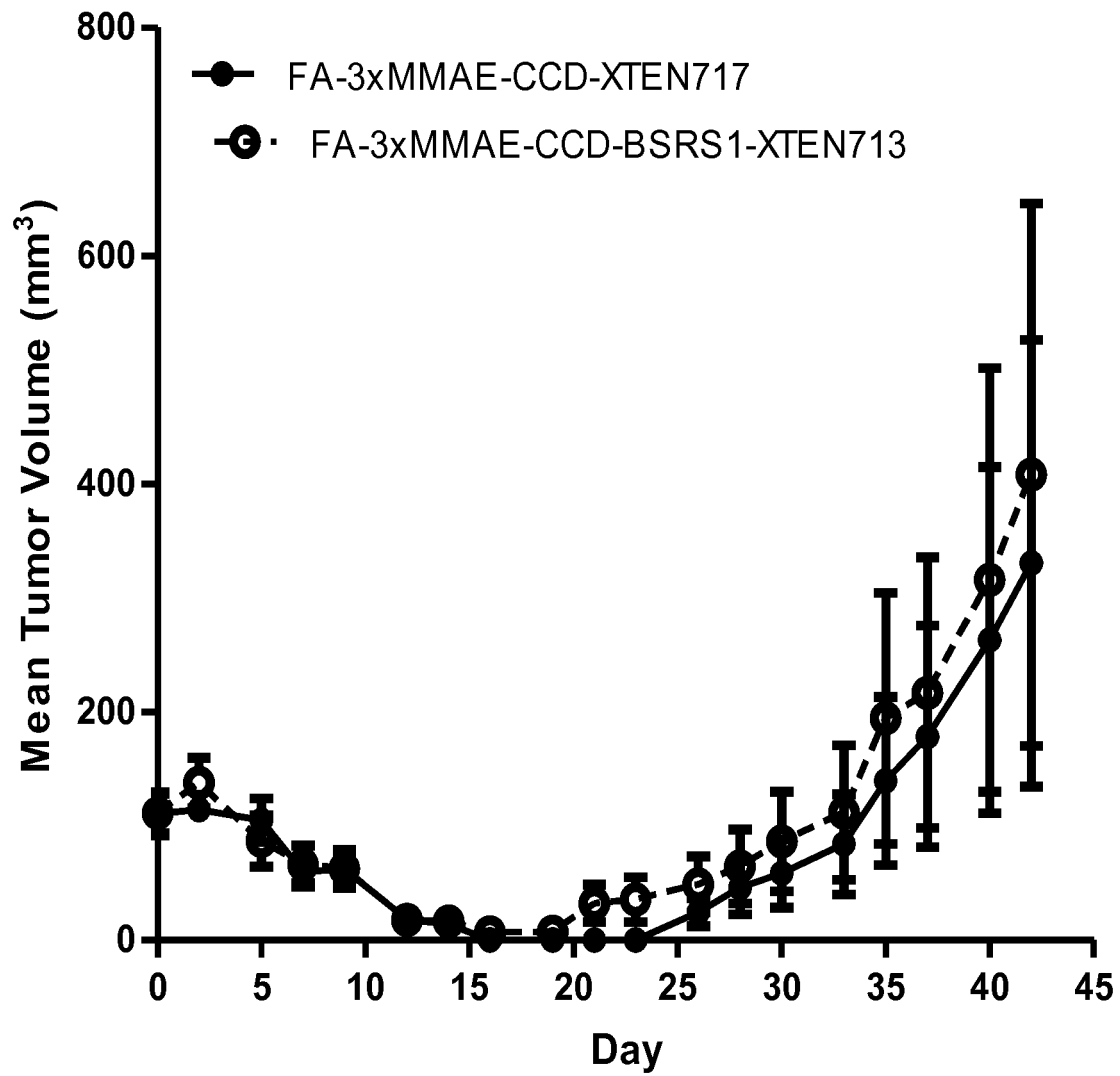


FIG. 80

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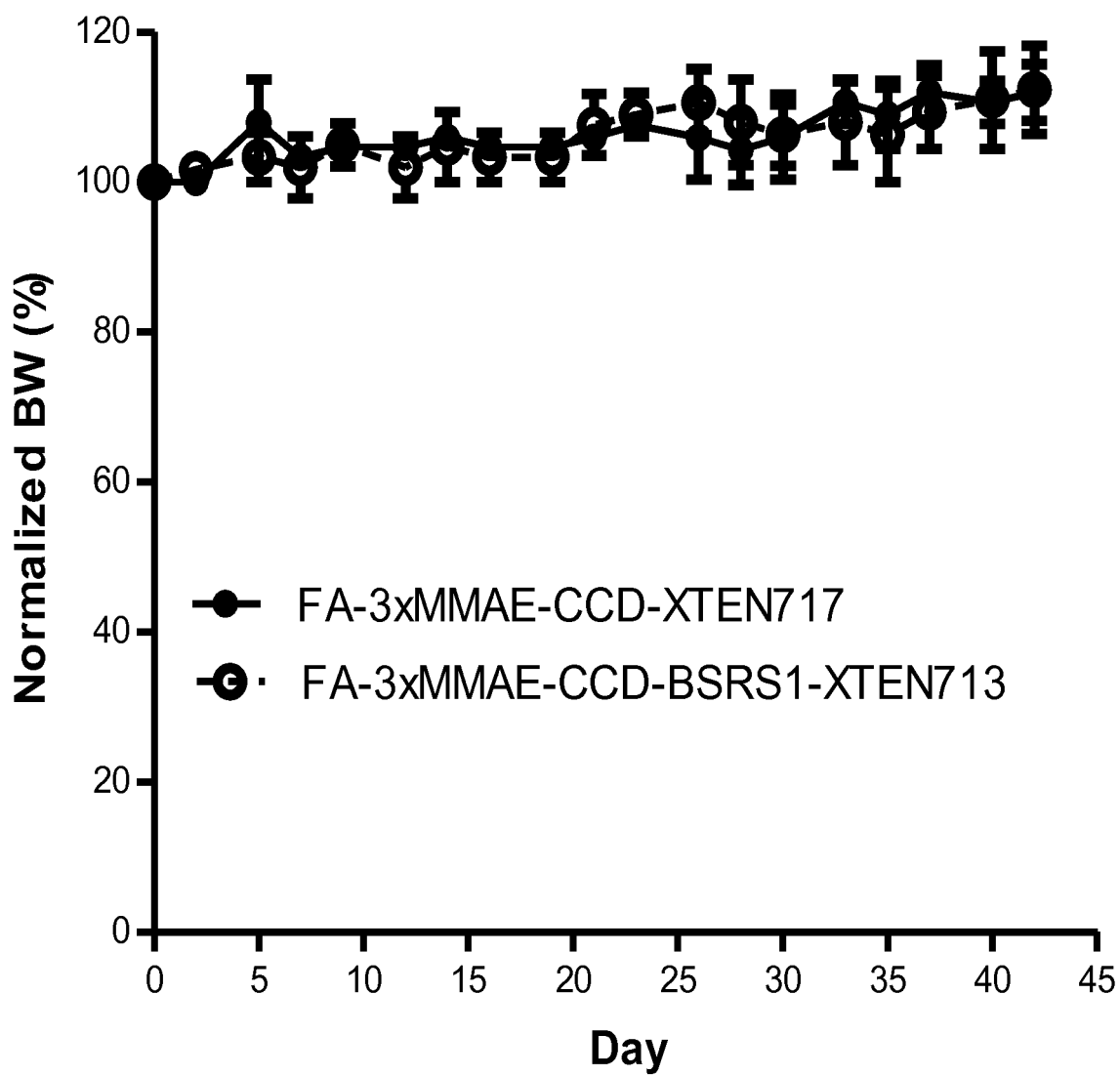


FIG. 81

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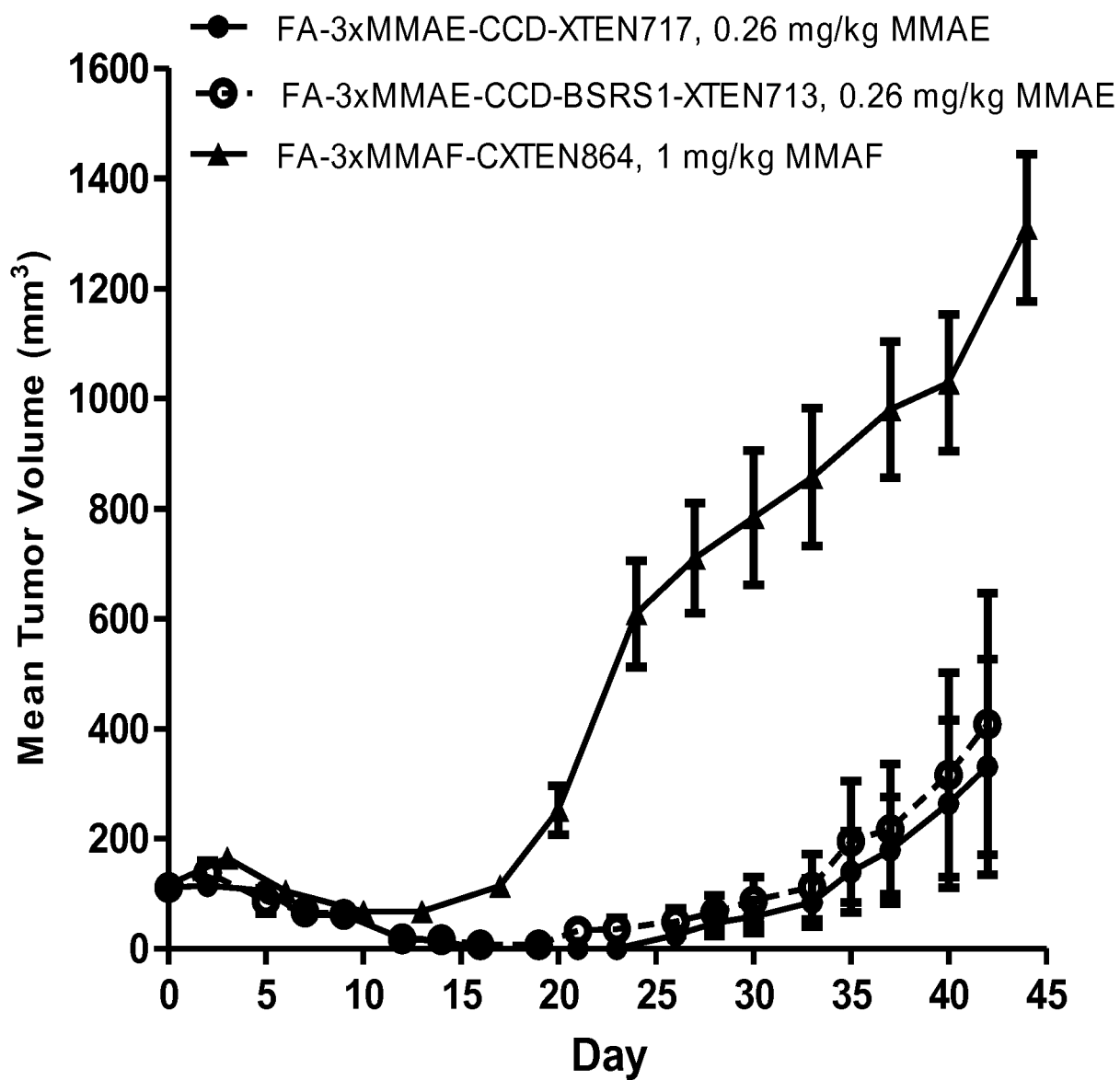


FIG. 82

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FIG. 83A

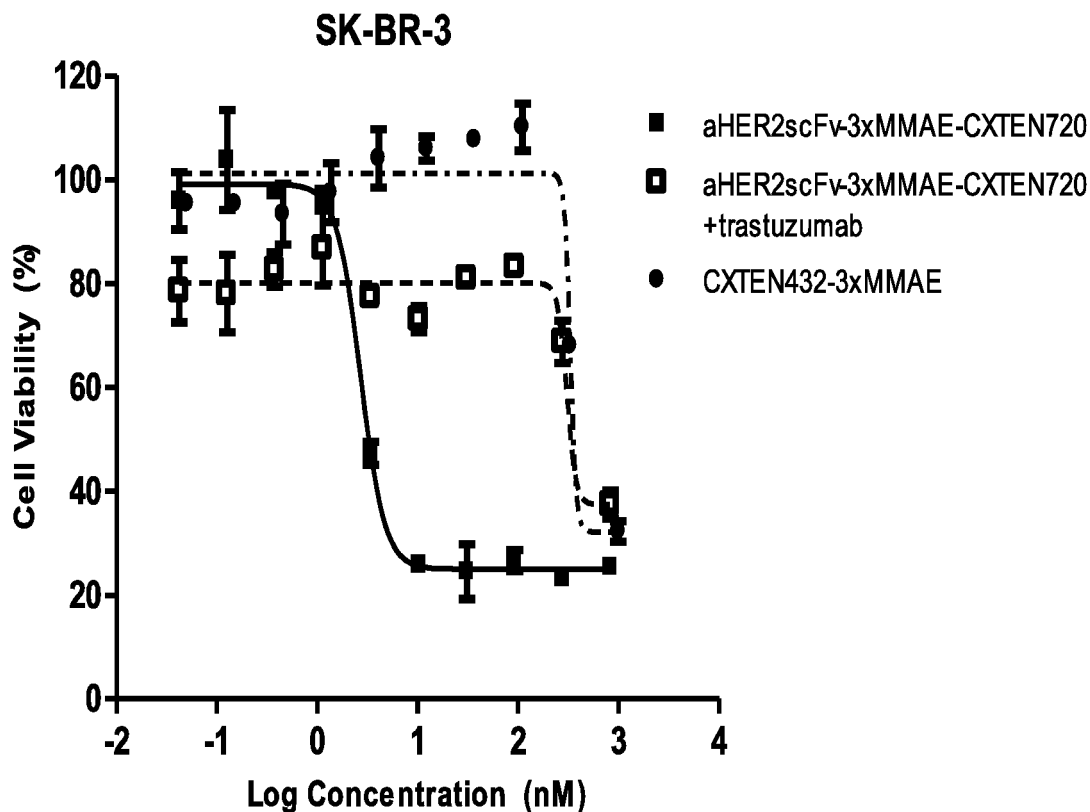


FIG. 83B

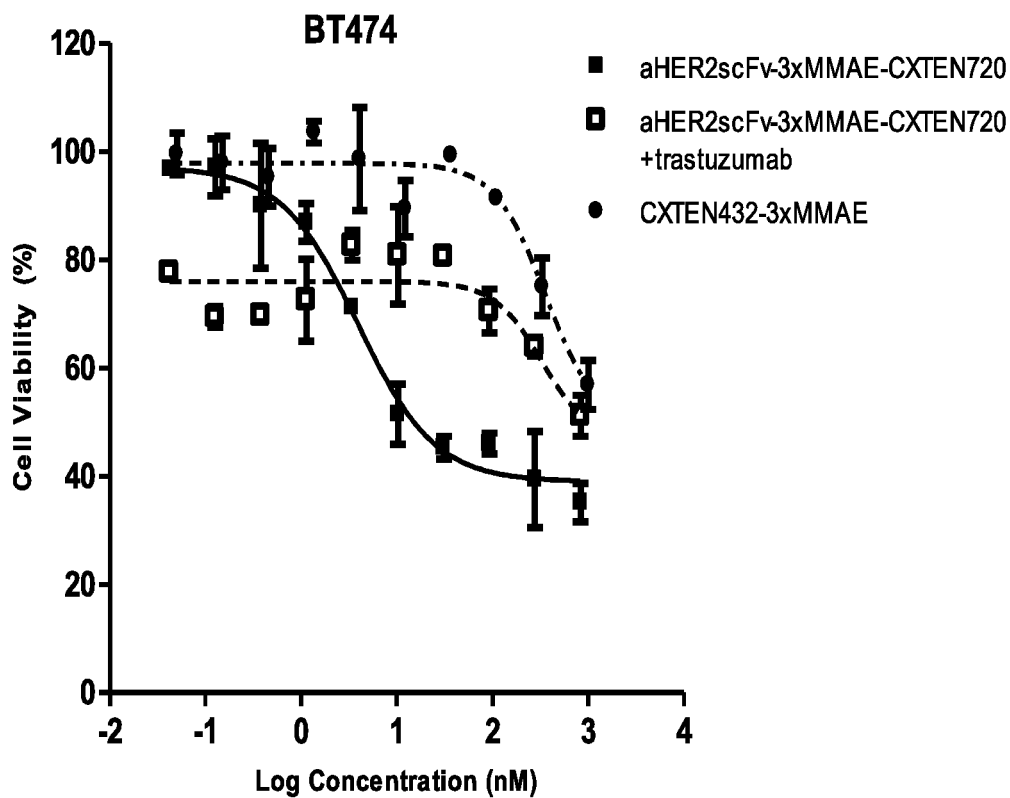


FIG. 83

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FIG. 83C

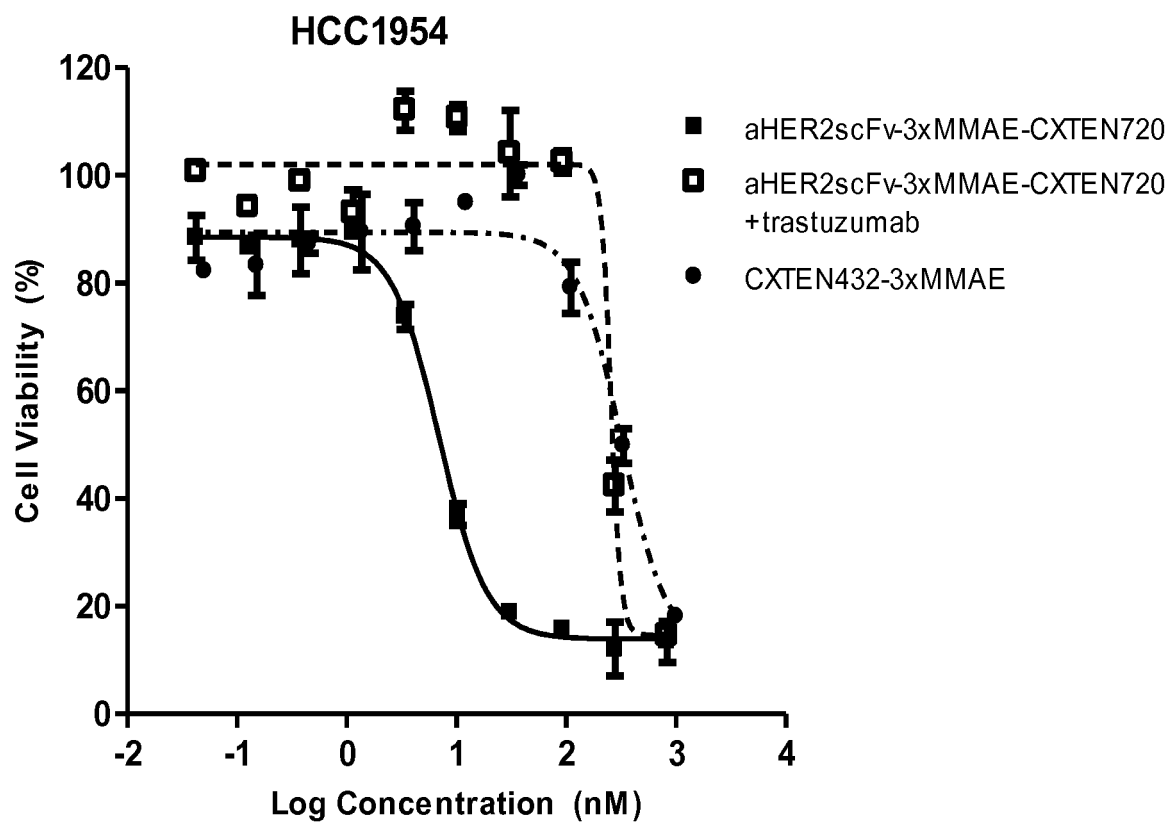


FIG. 83

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FIG. 83D

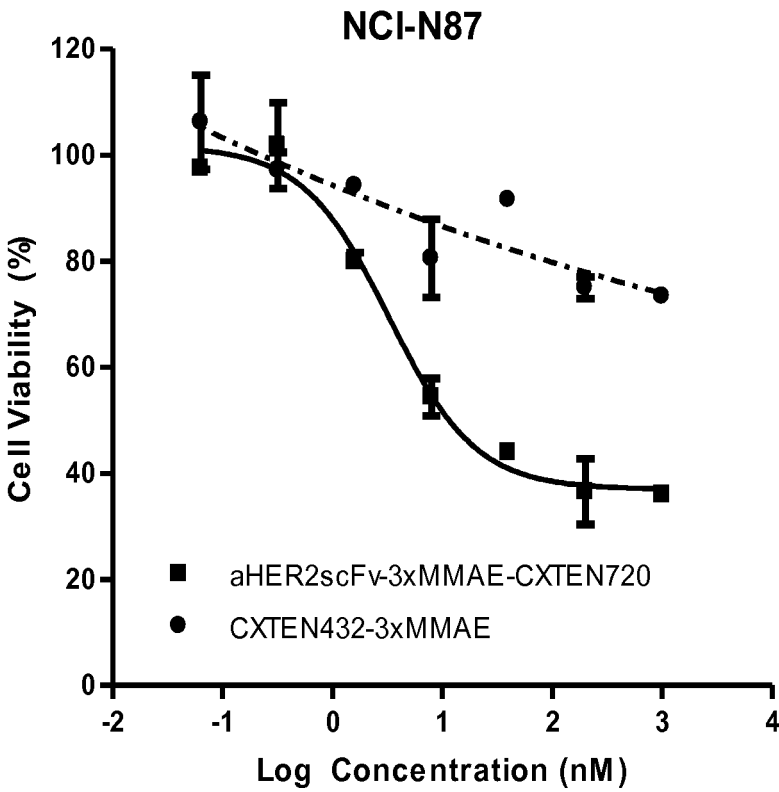


FIG. 83E

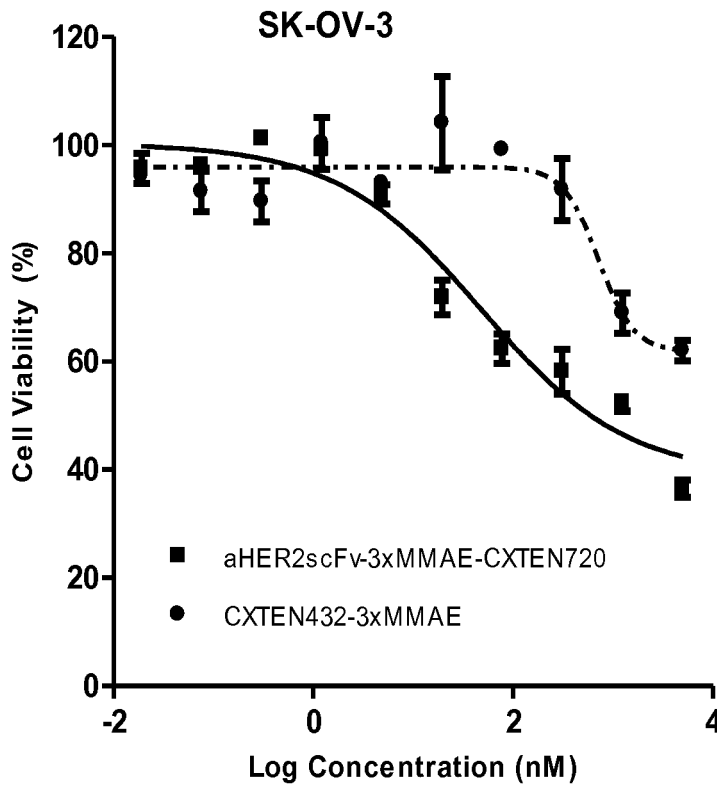


FIG. 83

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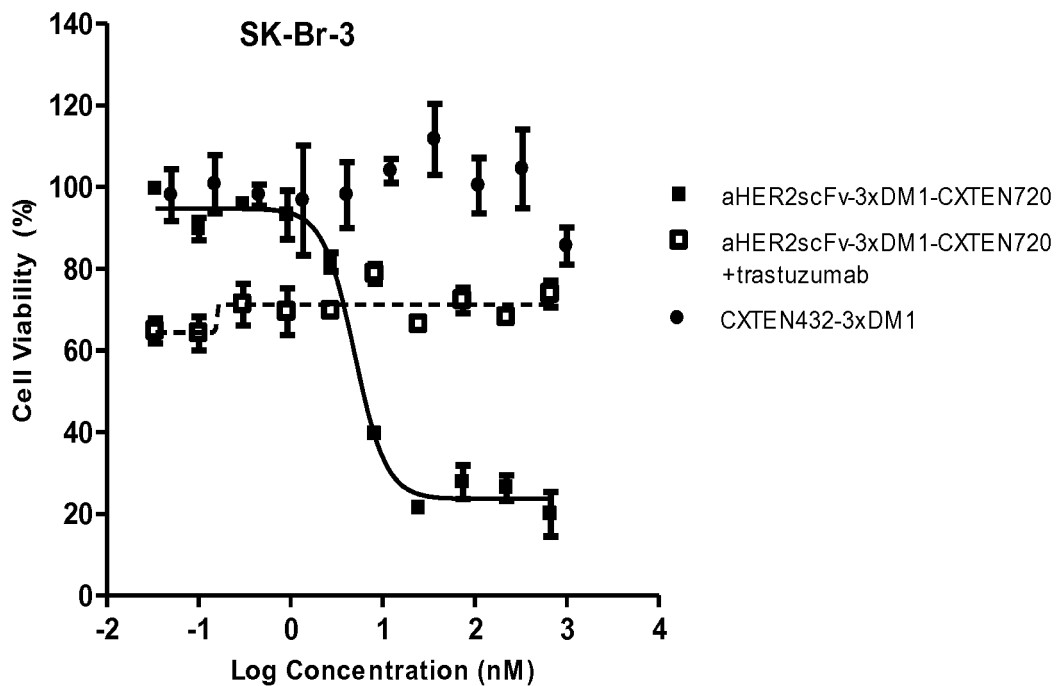
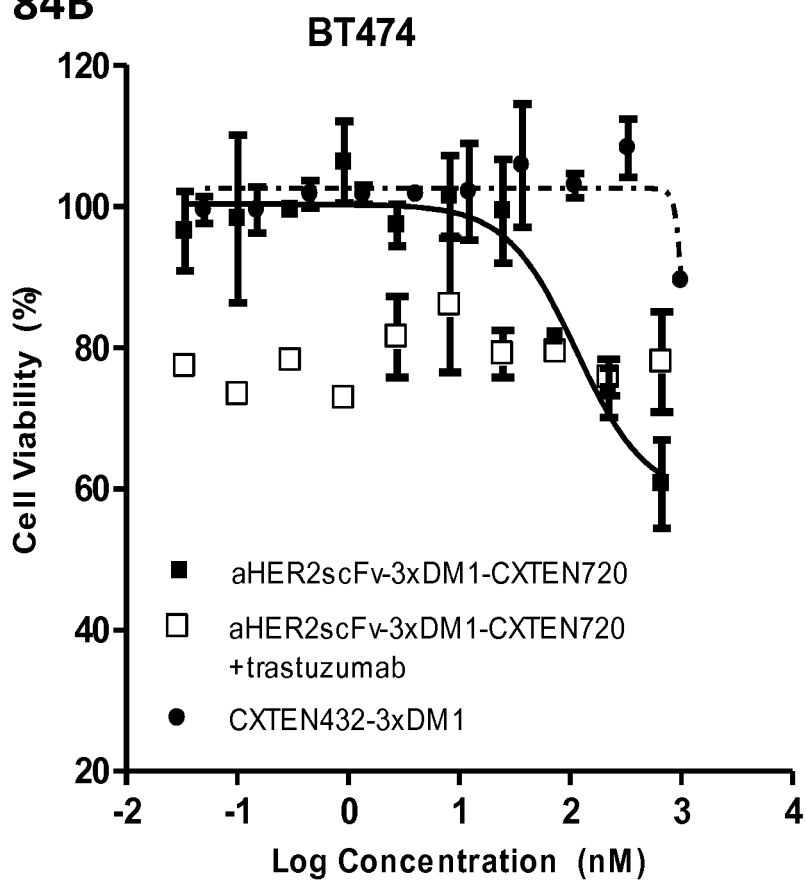
FIG. 84A**FIG. 84B****FIG. 84**

FIG. 84C

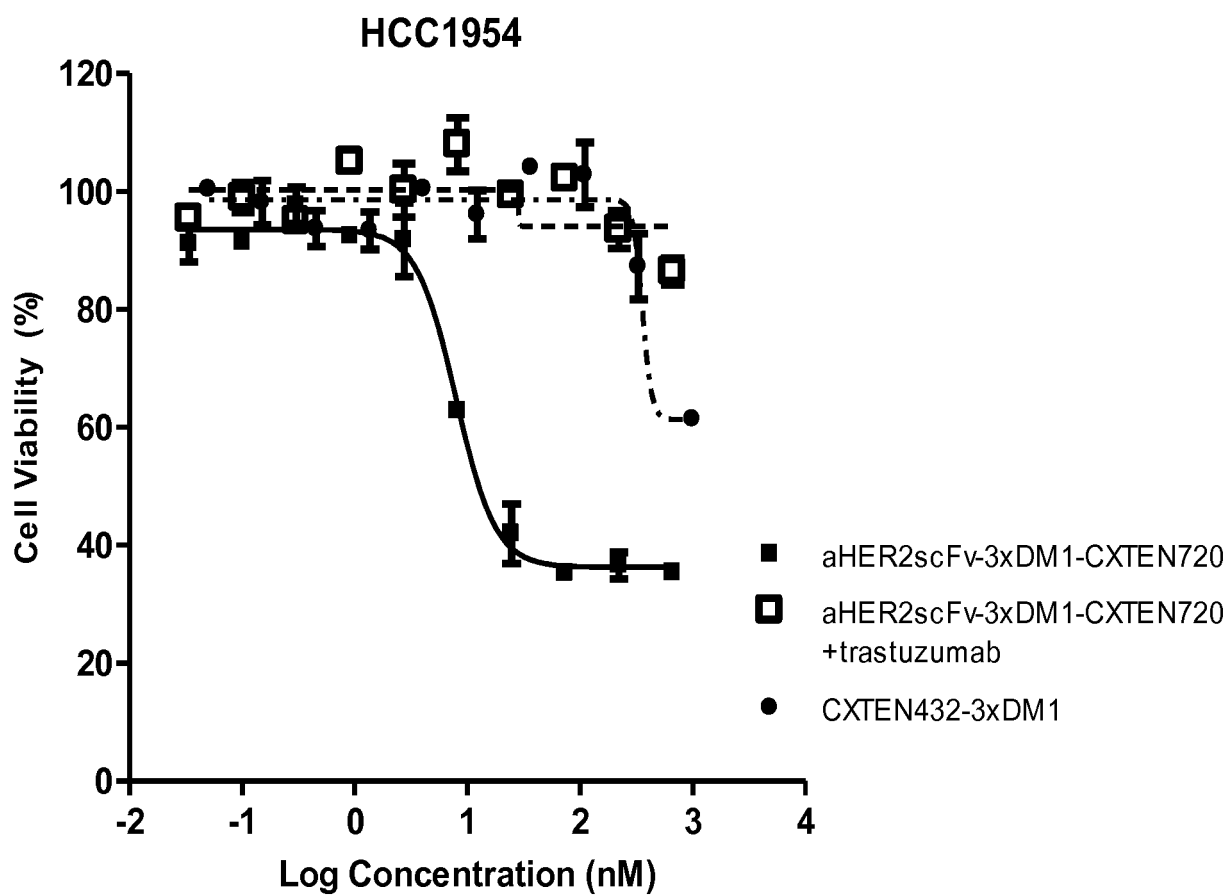


FIG. 84

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FIG. 84D

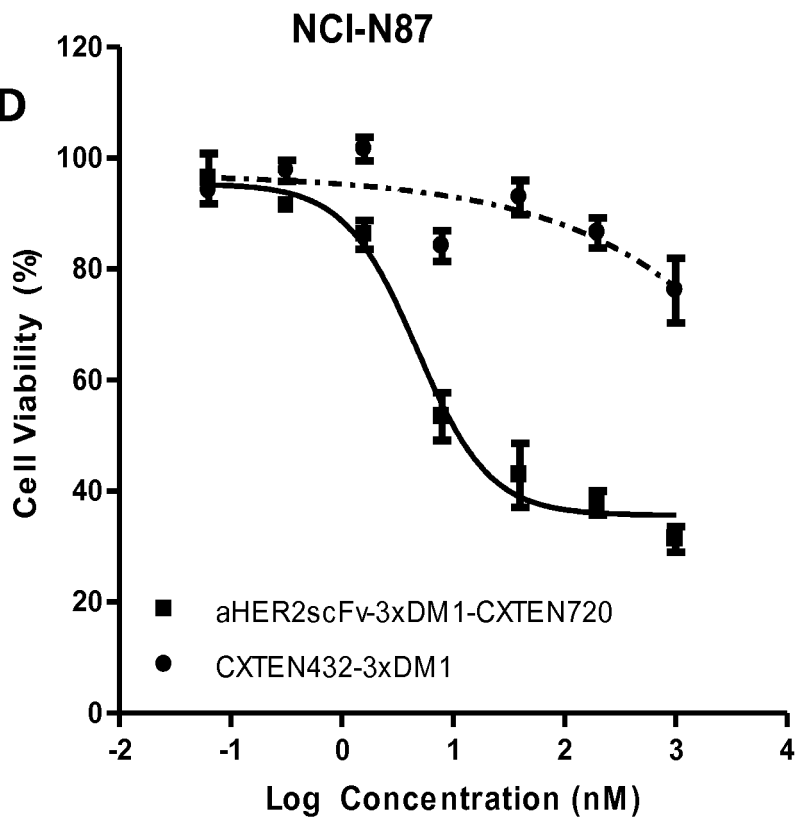


FIG. 84E

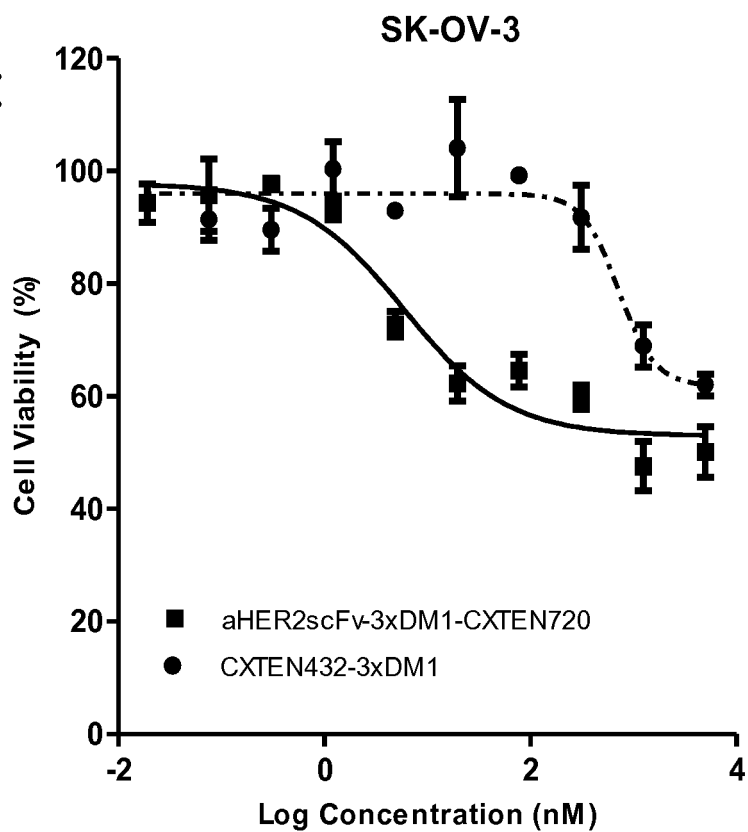
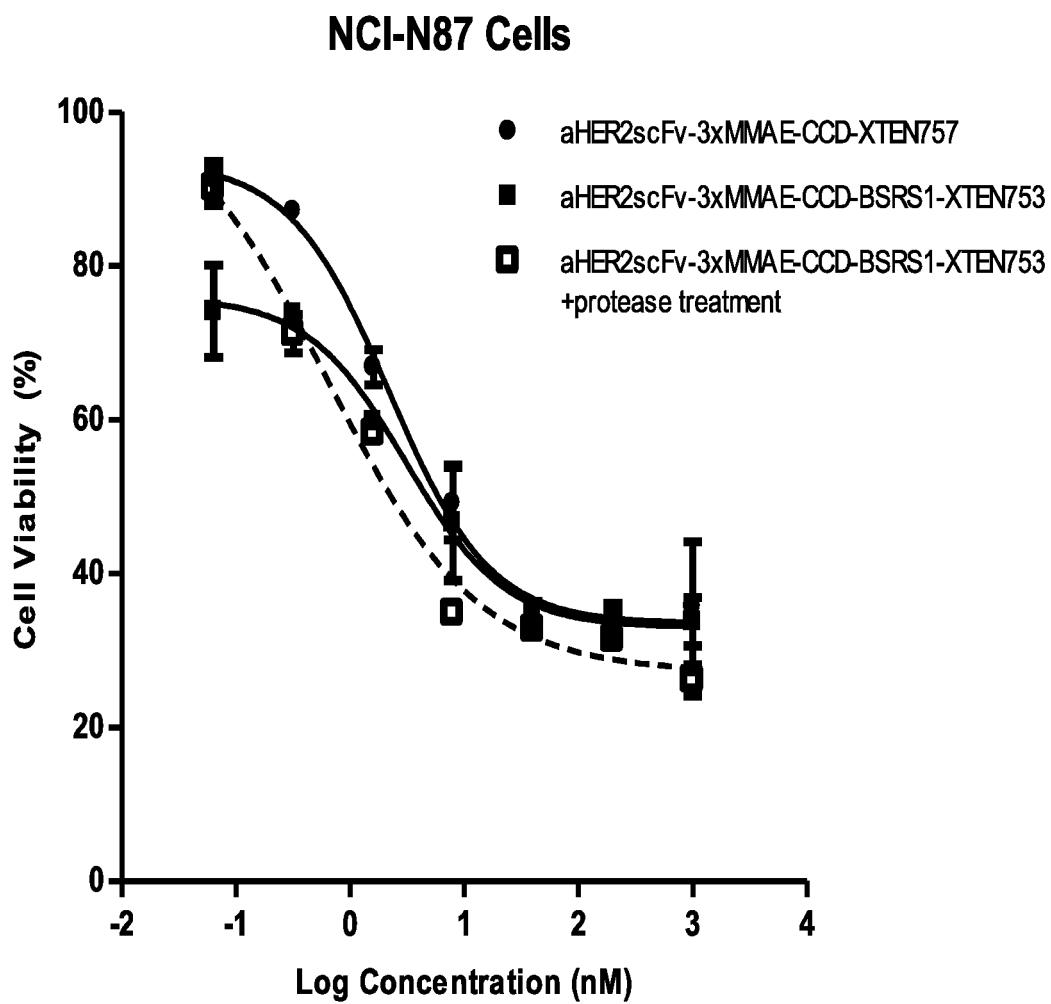


FIG. 84

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**FIG. 85**

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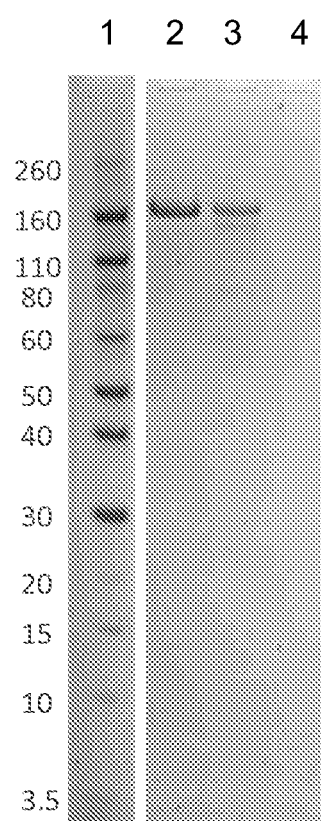
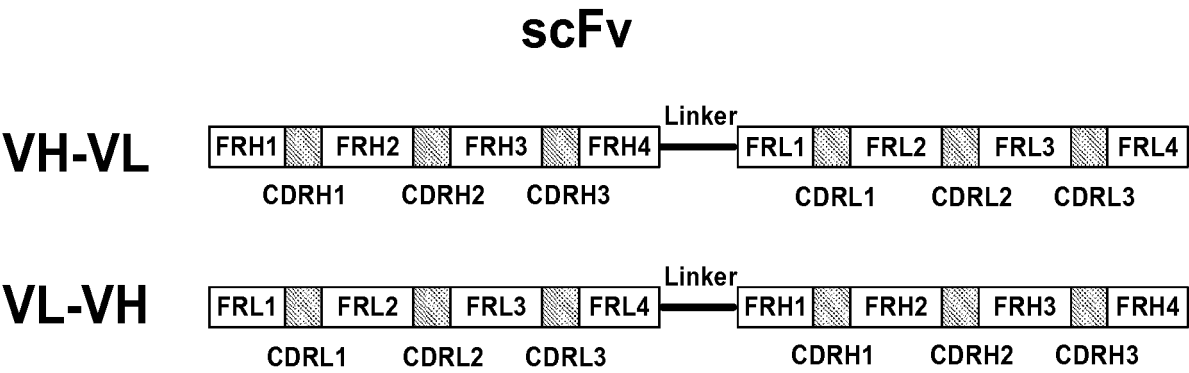
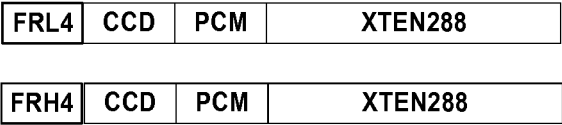
**FIG. 86**

FIG. 87A



FR4-CCD-PCM-XTEN

FIG. 87B



XTEN-PCM-CCD-FR1

FIG. 87C

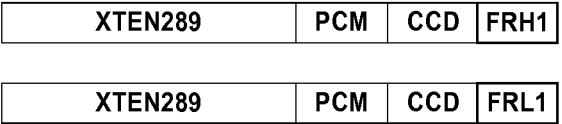


FIG. 87