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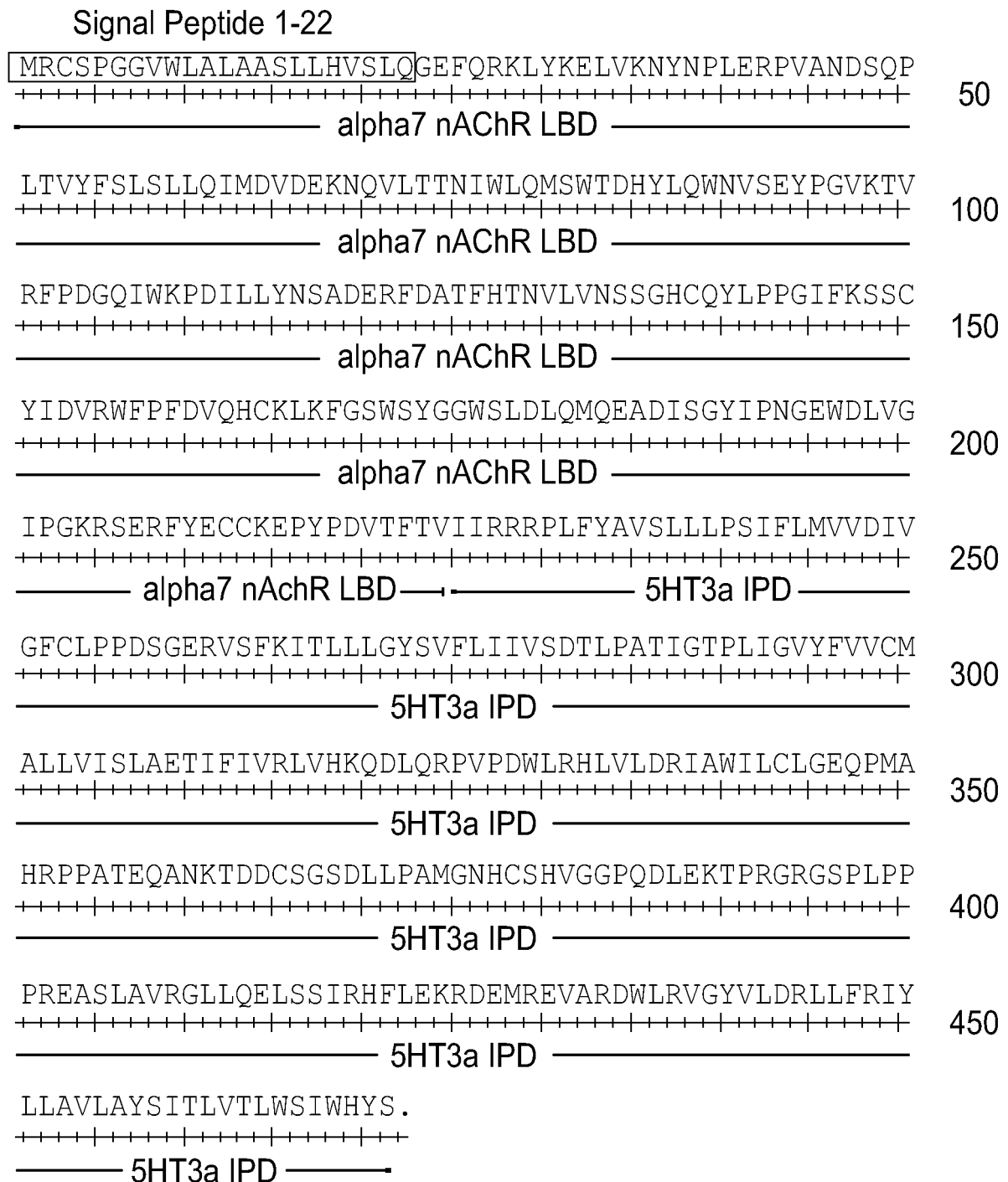


FIG. 1A

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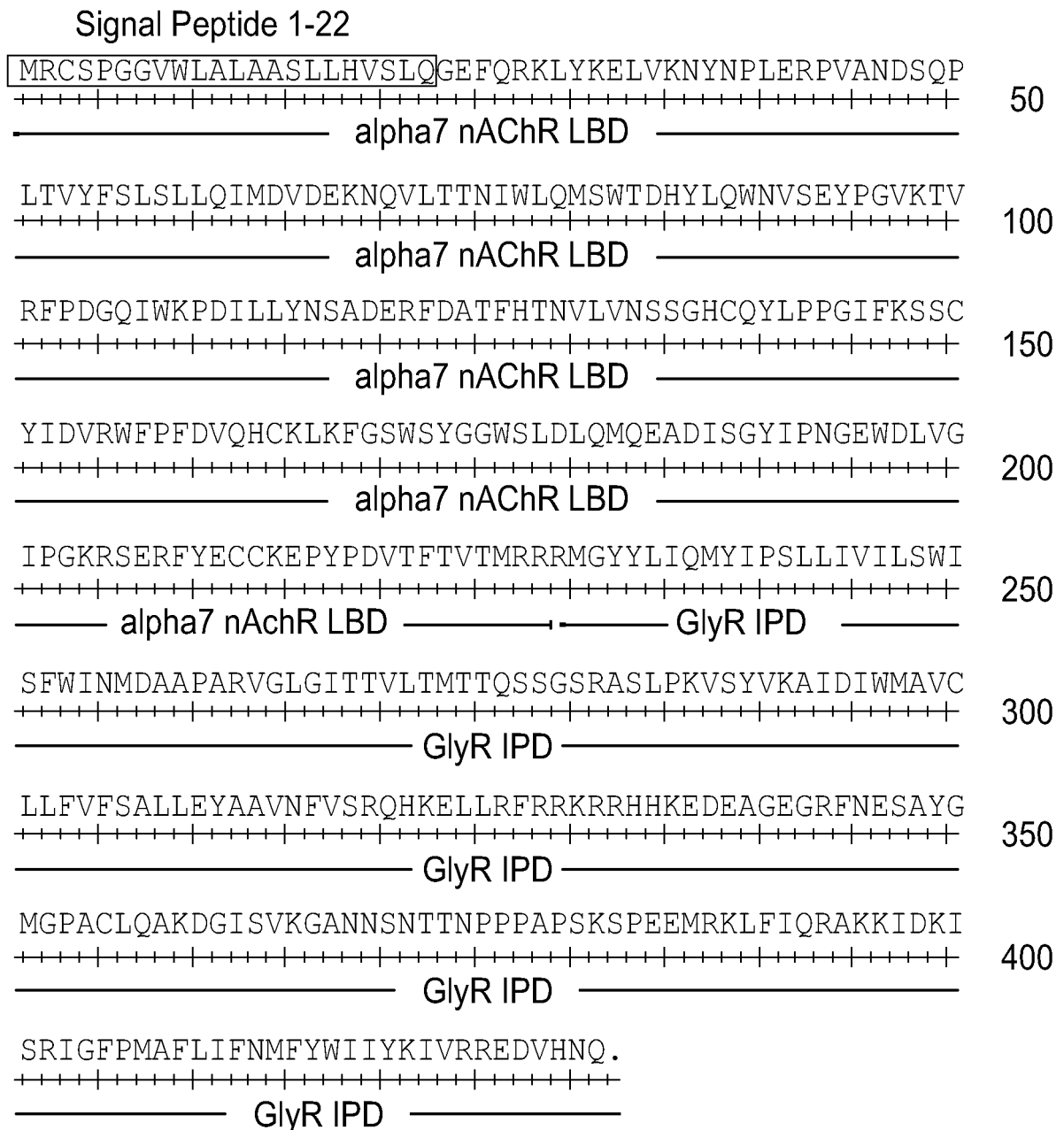


FIG. 1B

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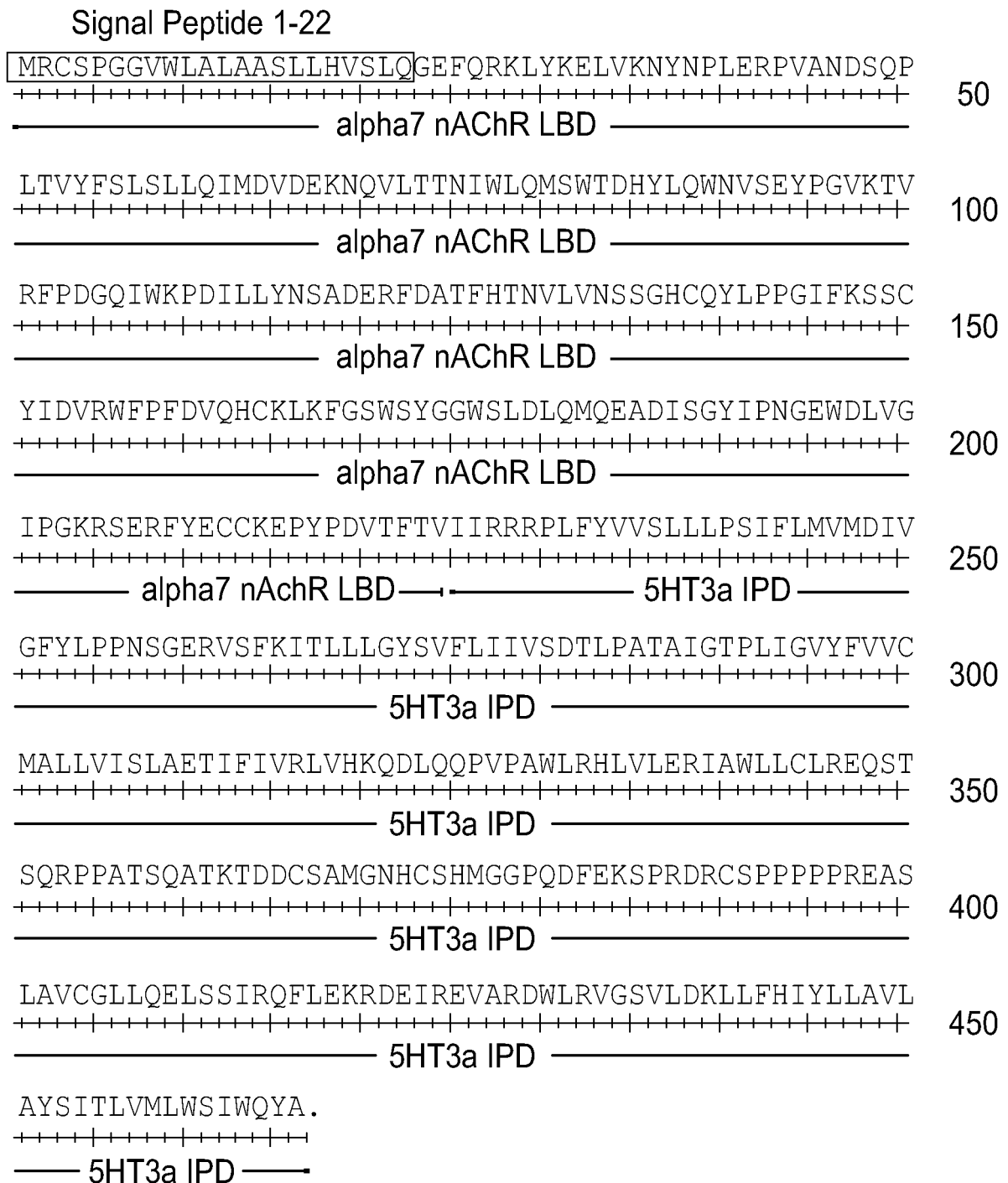


FIG. 1C

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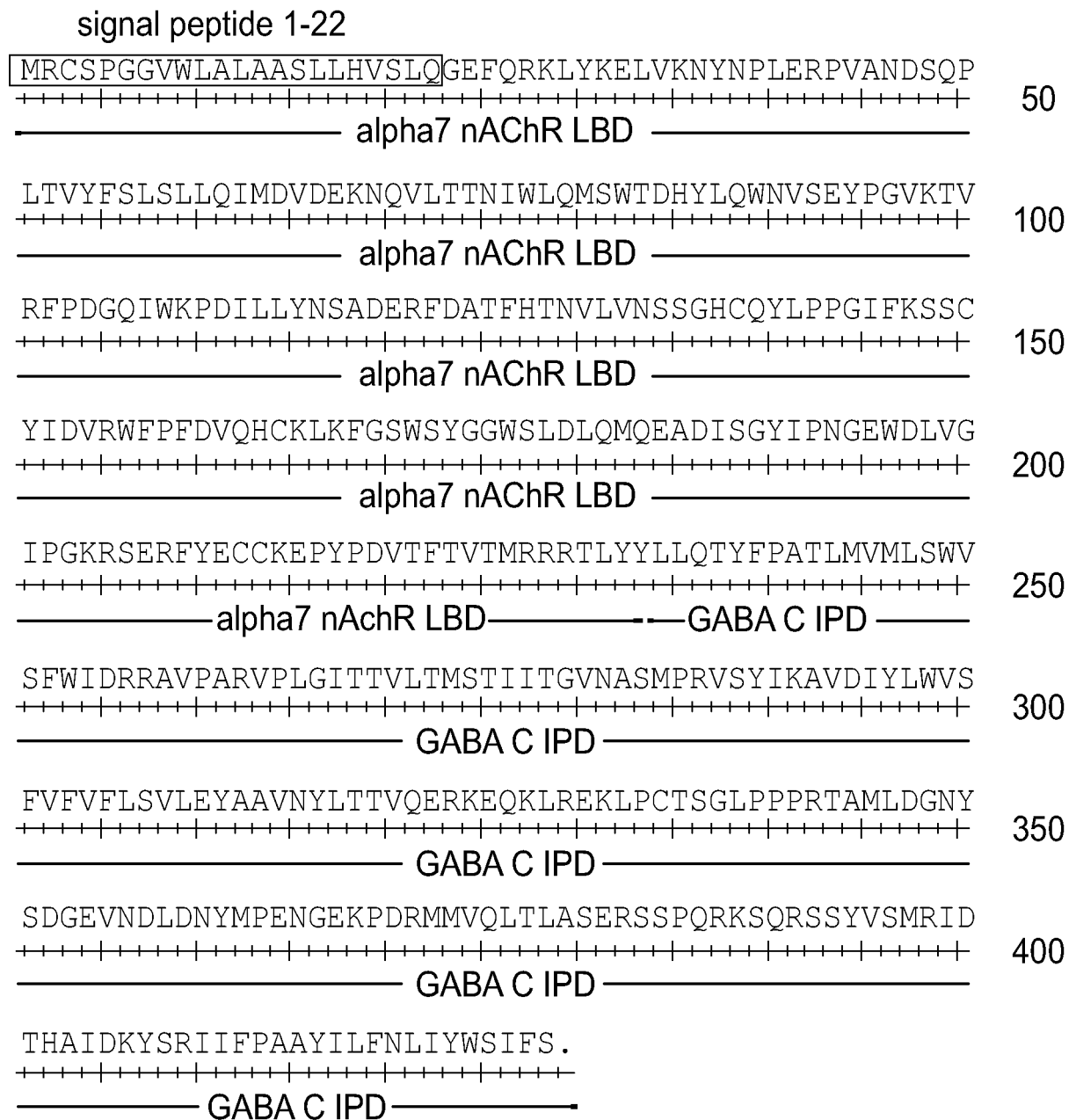


FIG. 1D

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signal peptide 1-22

MGGGRGGIWLALAAALLHVS	LQGEFQRRLYKELVK	NYNPLERP	VANDSQP	50
+++++				
LT	VYFSL	SLLQIM	DVDEKNQVLTTNIWLQMSWTDHYLQWNMSEYPGVKNV	100
+++++				
RF	PDGQIW	KPDIL	LYNSADERFDATFHTNVGVNASGHCQYLPPGIFKSSC	150
+++++				
YI	DVRWF	PF	DVQQCKLKFGSWSYGGWSLDLQMQEADISSYIPNGEWDLMG	200
+++++				
IP	GKRNE	KFYEC	KEPYPDVTYTVTMRRTLYYGLNLLIPCVLISALALL	250
+++++				
VF	LLPAD	S	GEKISLGITVLLSLTTFMLLVAEIMPATSDSVPLIAQYFAST	300
+++++				
MI	IVGLS	VVTV	VIVLRYHHHDPDGGKMPKWTRIILLNWCAWFLRMKRPGE	350
+++++				
DK	VRPAC	QHKPR	RCSLASVELSAGAGPPTSNGNLLYIGFRGLEGMHCAPT	400
+++++				
PD	SGVVC	GRLAC	SPTHDEHLMHGAHPSDGDPLAKILEEVRYIANRNCQ	450
+++++				
DE	SEVIC	SEWKFA	ACVVDPLCLMAFSVFTIICTIGILMSAPNFVEAVSKD	500
+++++				
FA.				
+++				

FIG. 1E

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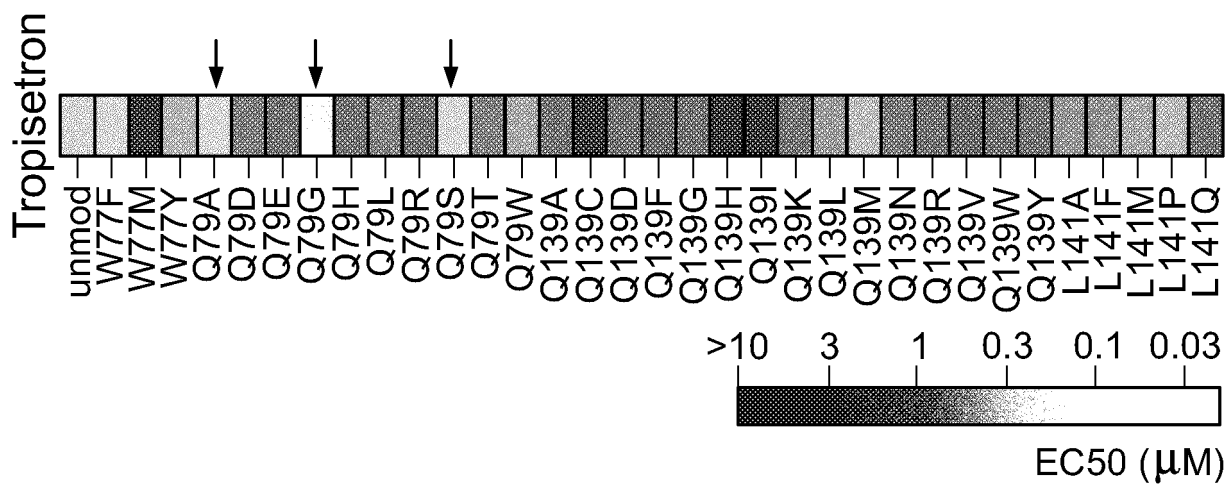


FIG. 2

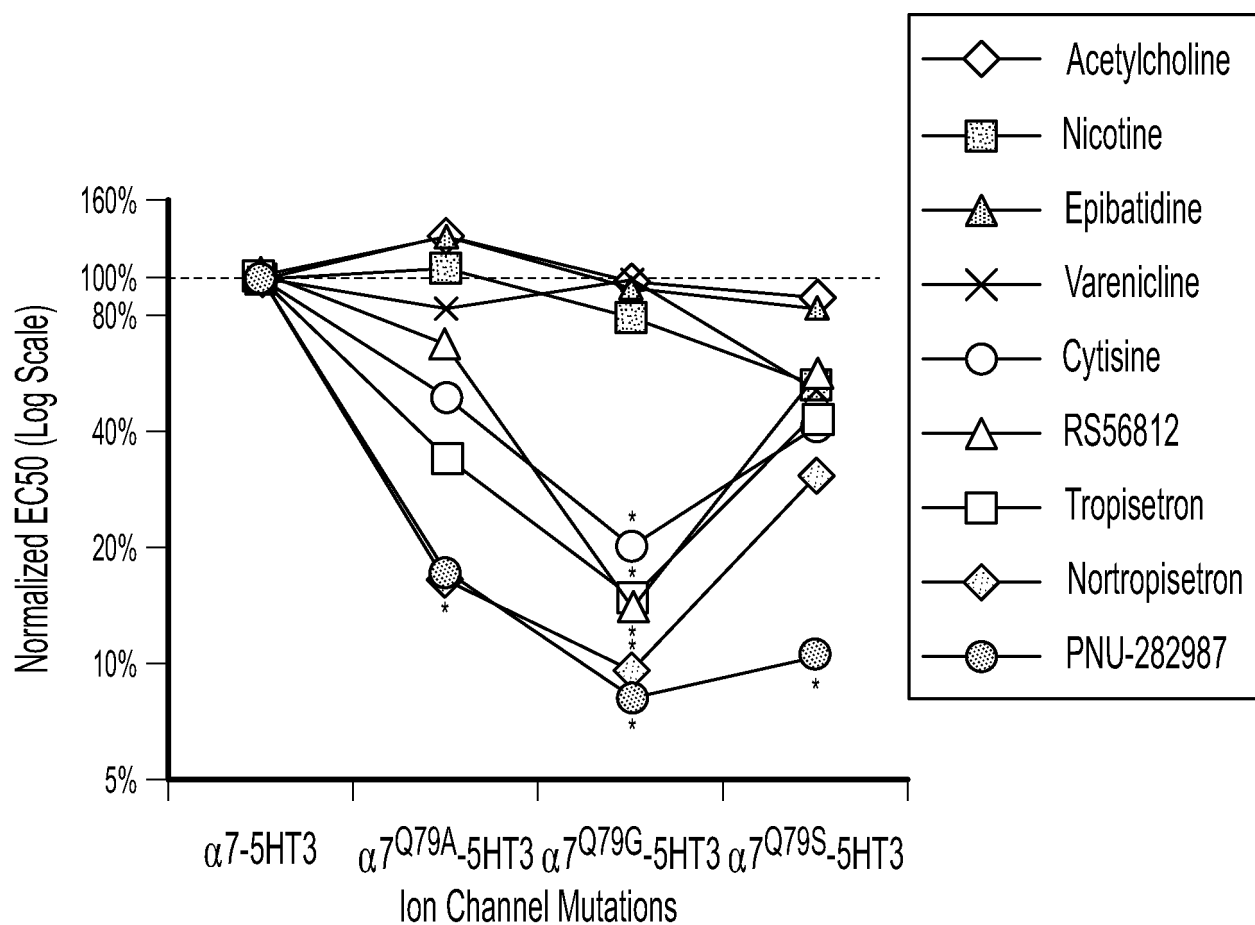


FIG. 3A

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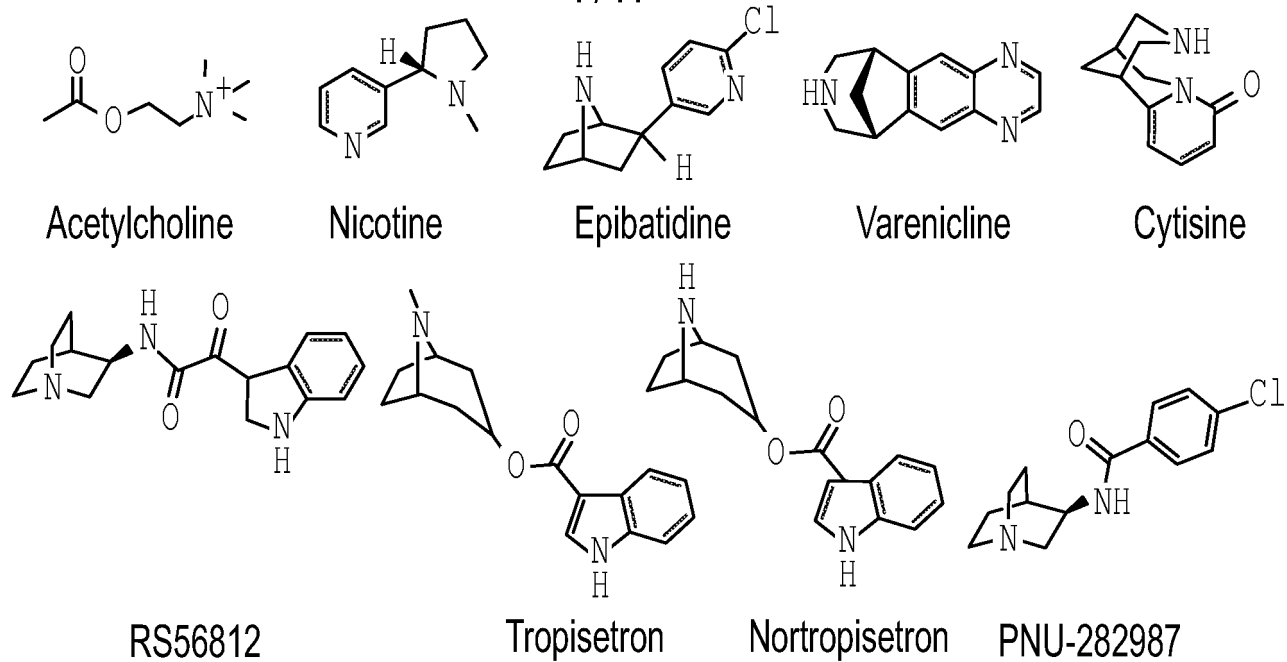


FIG. 3B

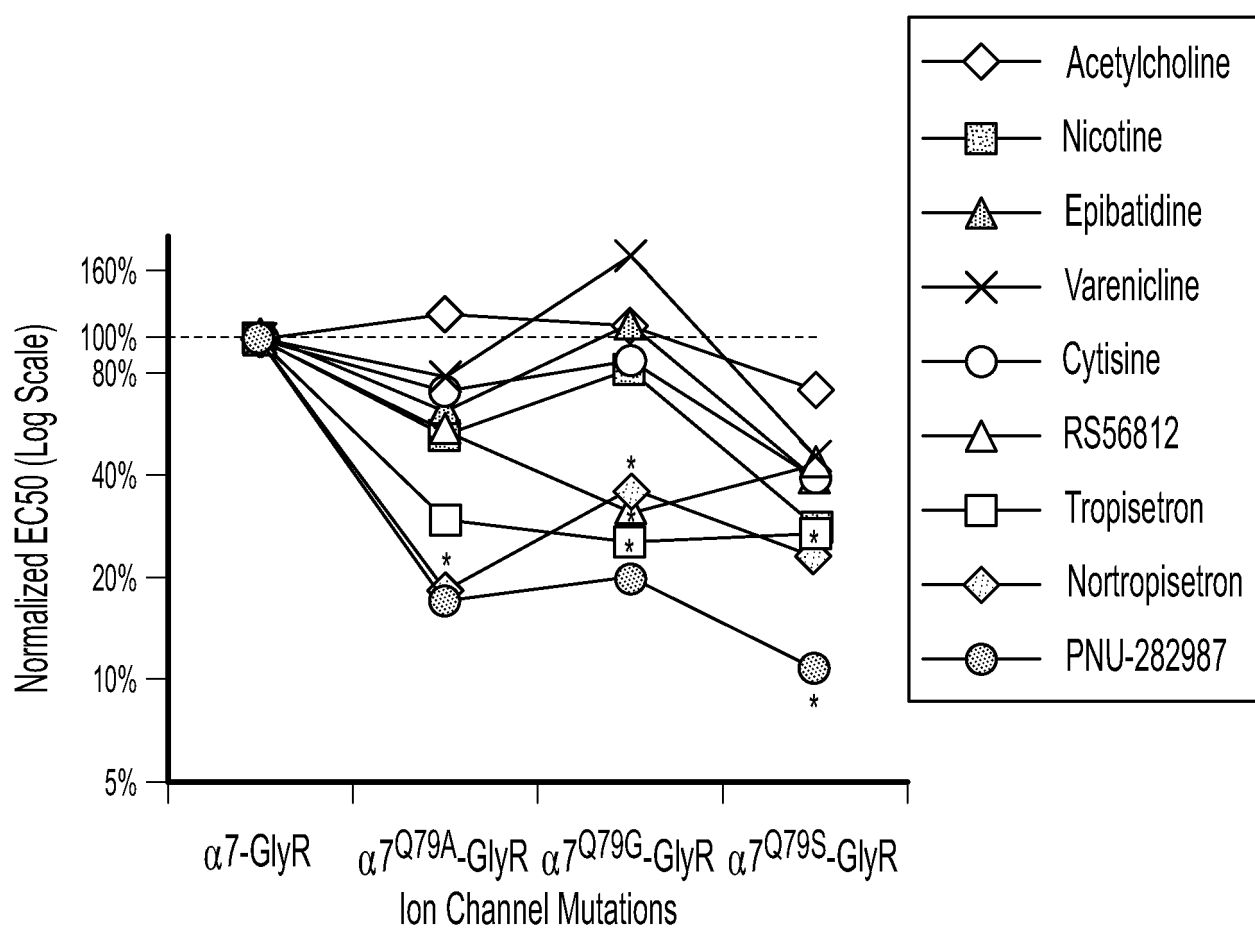


FIG. 4A

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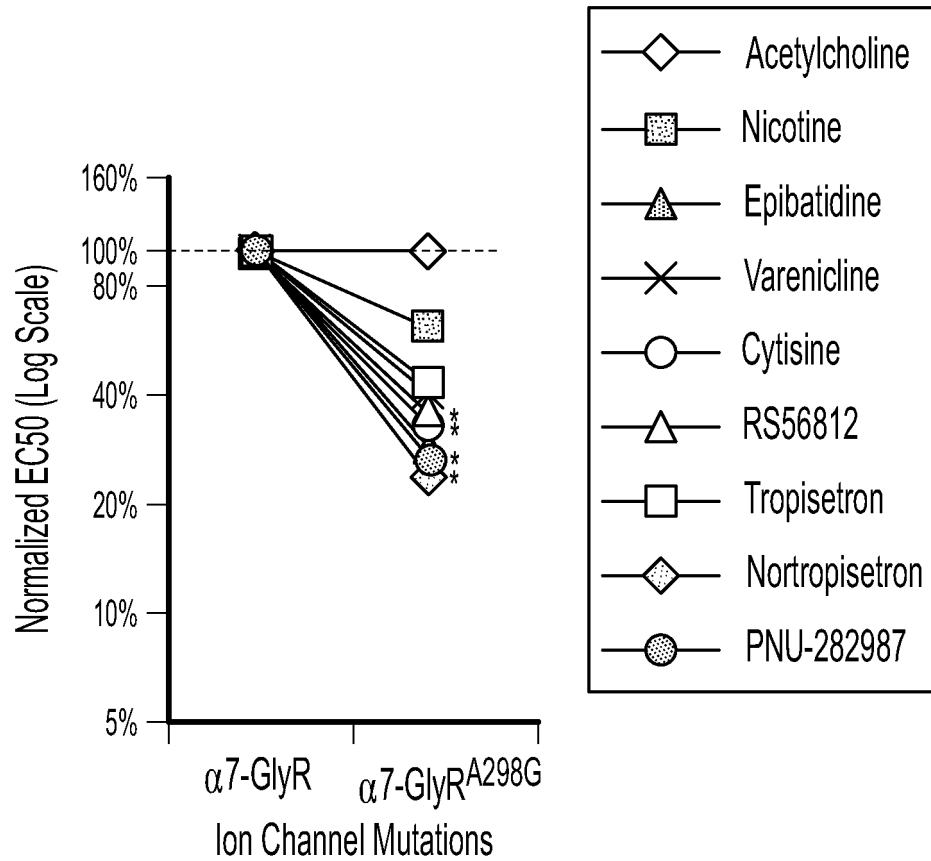


FIG. 4B

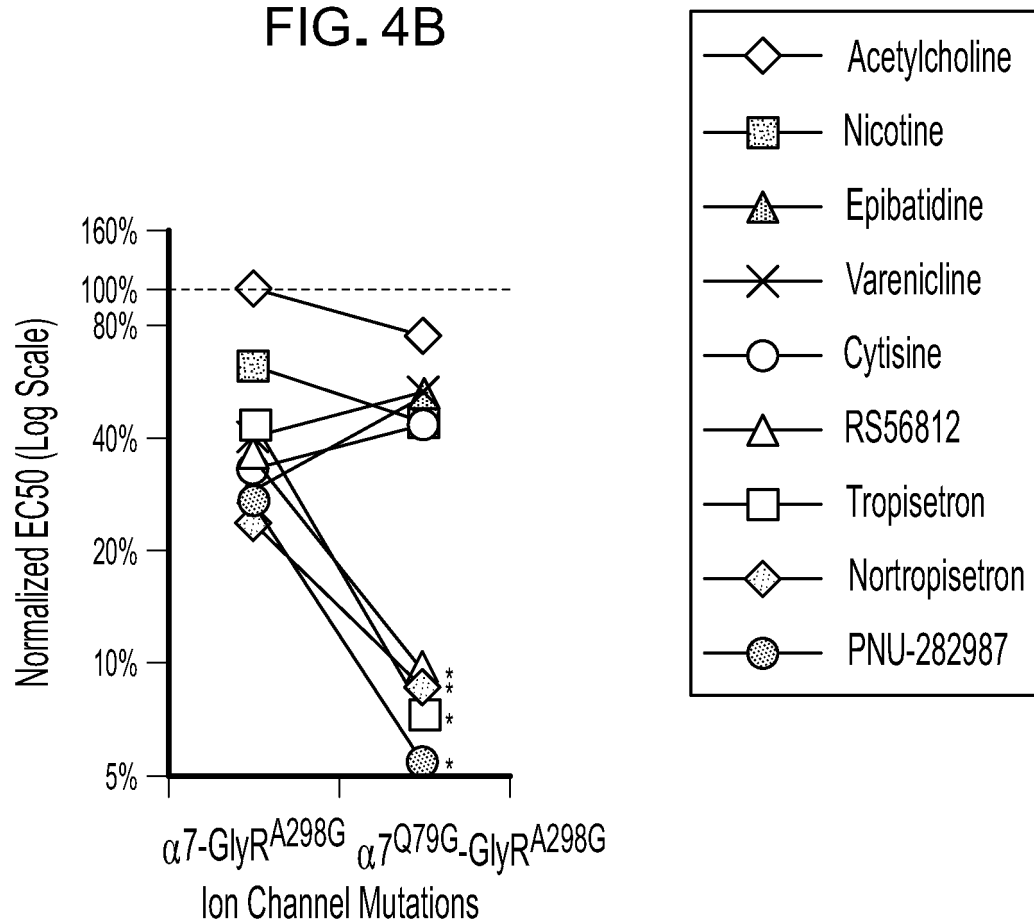
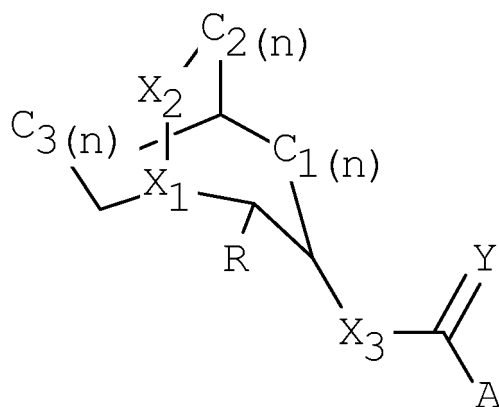


FIG. 4C

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X = CH, CH₂, O, NH, NMe

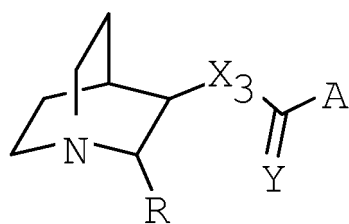
n = 0 or 1

Y = O, S

A = Aromatic

R = Pyridinylmethylene

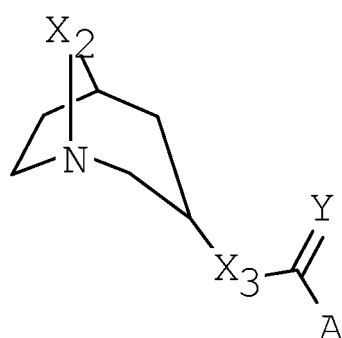
FIG. 5A

Pharmacophore:
Quinuclidine $C_{1(n)} = 0$ $C_{2(n)} = 1$ $C_{3(n)} = 0$ $X_1 = N$ $X_2 = CH_2$ $X_3 = O, NH, CH_2$

Y = O, S

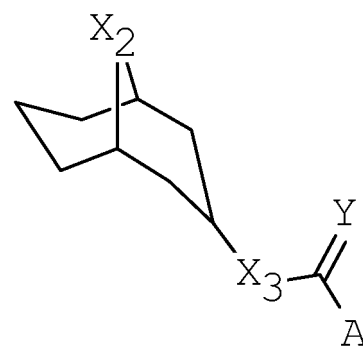
A = Aromatic

R = Pyridinylmethylene

Pharmacophore:
Tropane $C_{1(n)} = 1$ $C_{2(n)} = 0$ $C_{3(n)} = 0$ $X_1 = CH$ $X_2 = NH, NMe$ $X_3 = O, NH, CH_2$

Y = O, S

A = Aromatic

Pharmacophore:
9-azabicyclo[3.3.1]
nonane $C_{1(n)} = 1$ $C_{2(n)} = 0$ $C_{3(n)} = 1$ $X_1 = CH$ $X_2 = NH, NMe$ $X_3 = O, NH, CH_2$

Y = O, S

A = Aromatic

FIG. 5B

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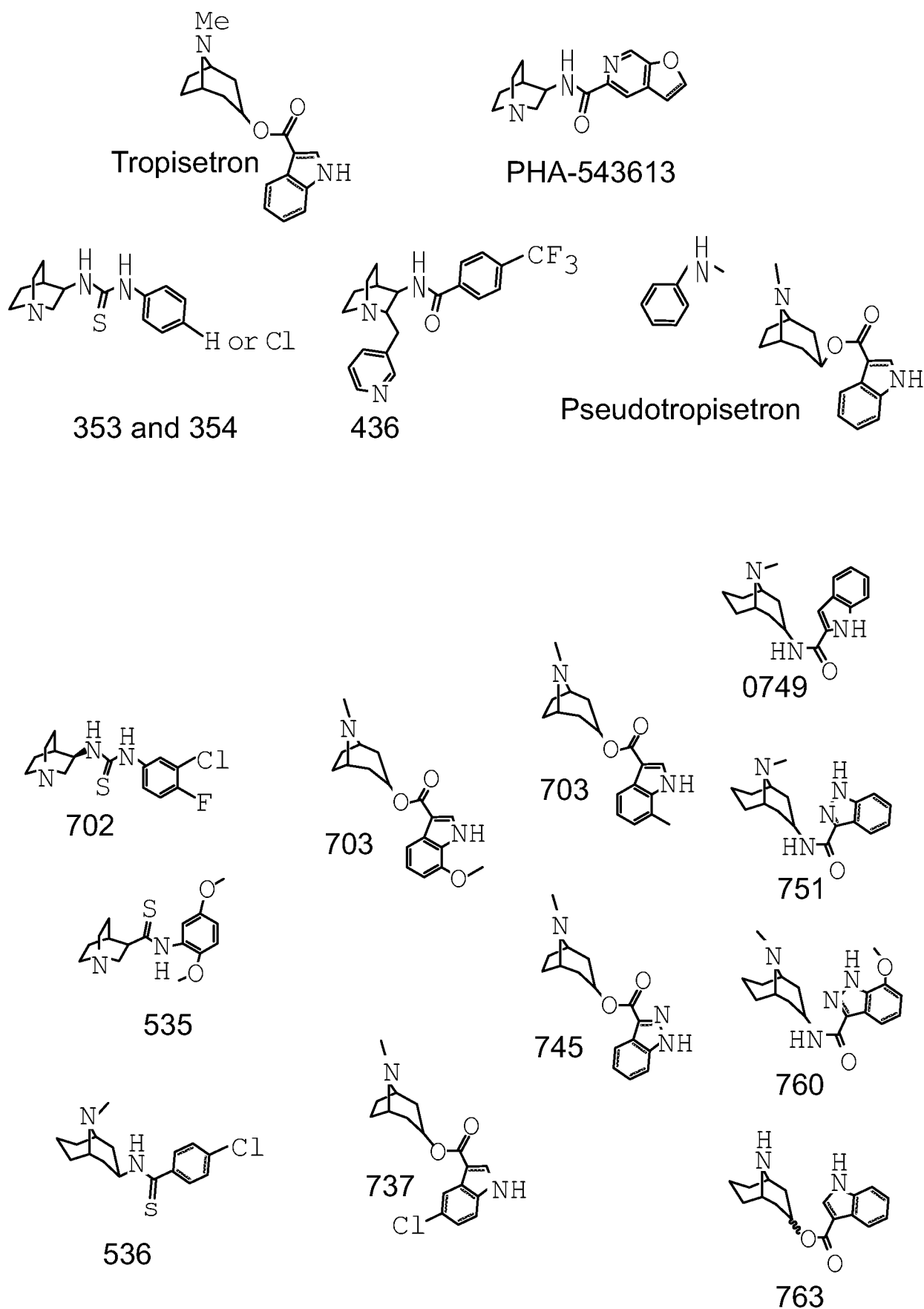


FIG. 5C

SUBSTITUTE SHEET (RULE 26)

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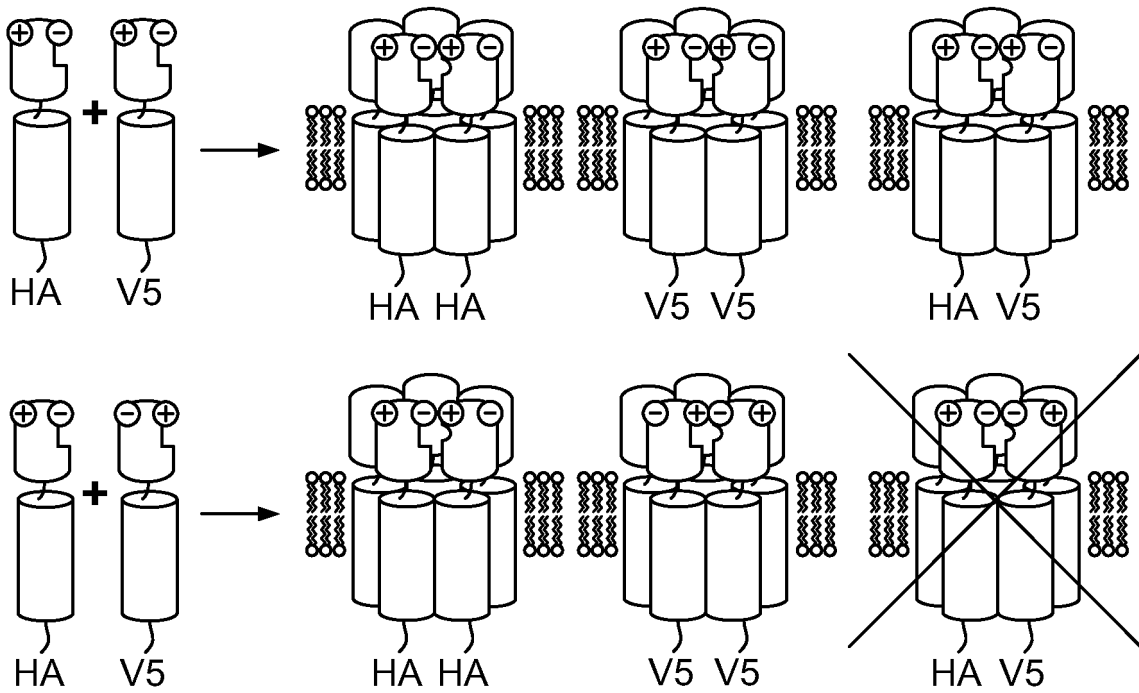


FIG. 6A

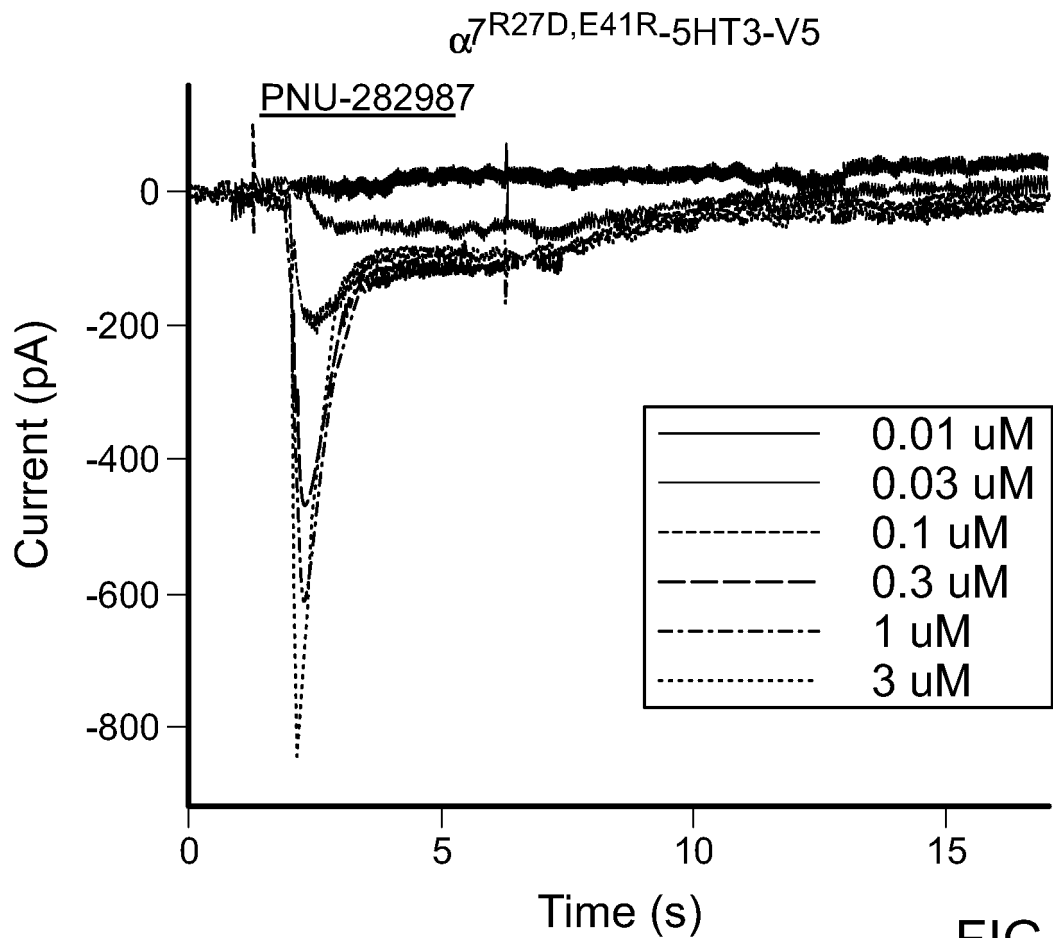


FIG. 6B

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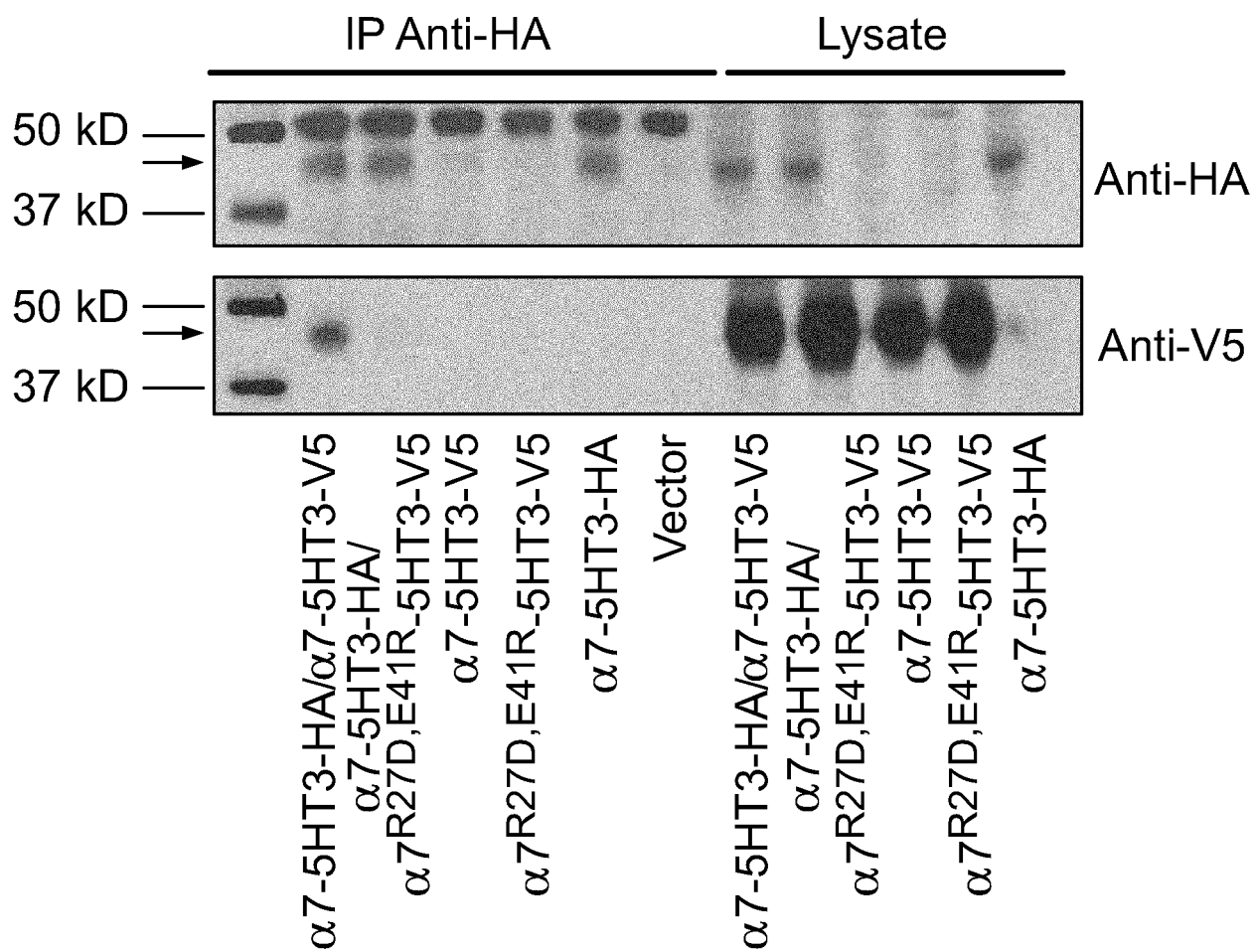


FIG. 6C

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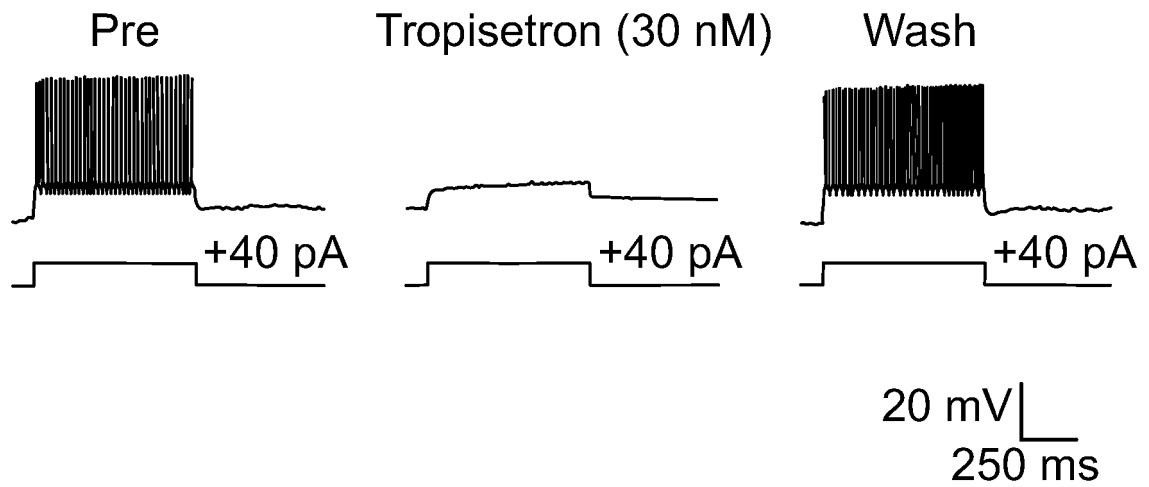


FIG. 7

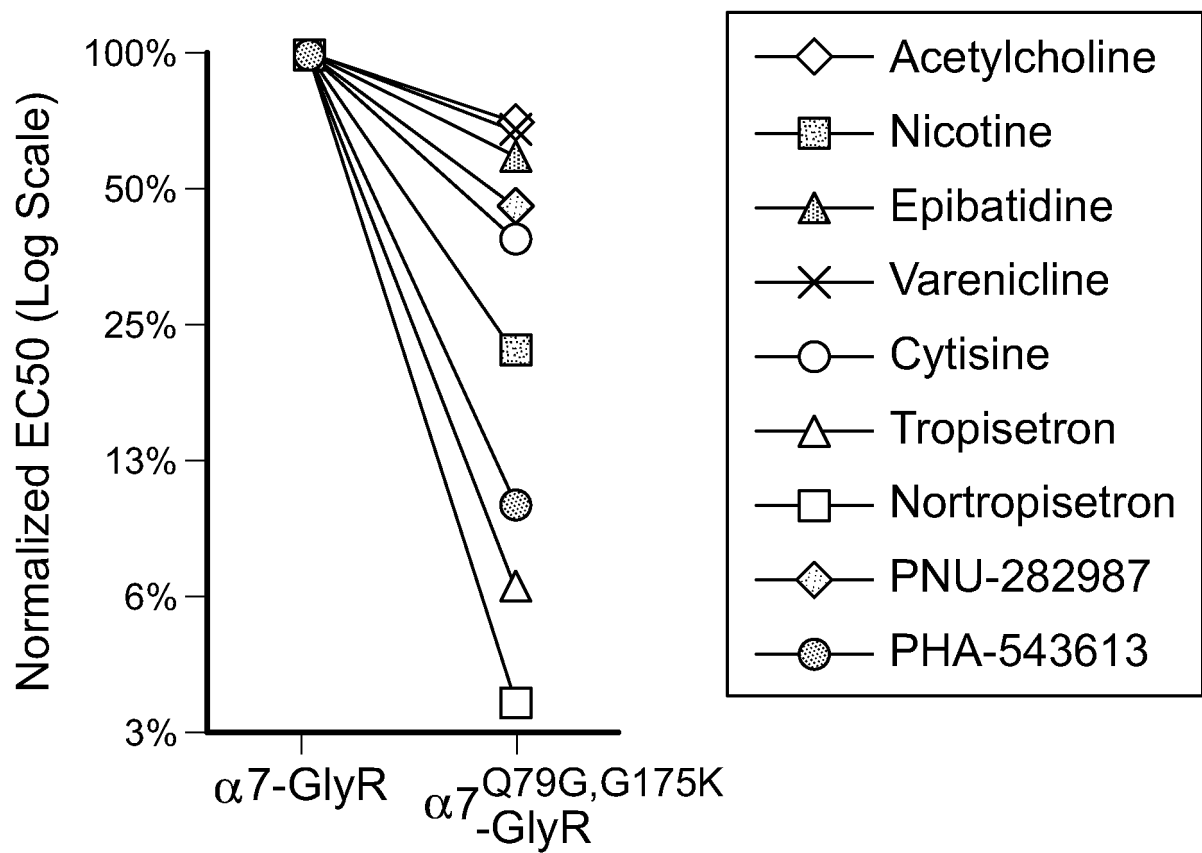


FIG. 8A

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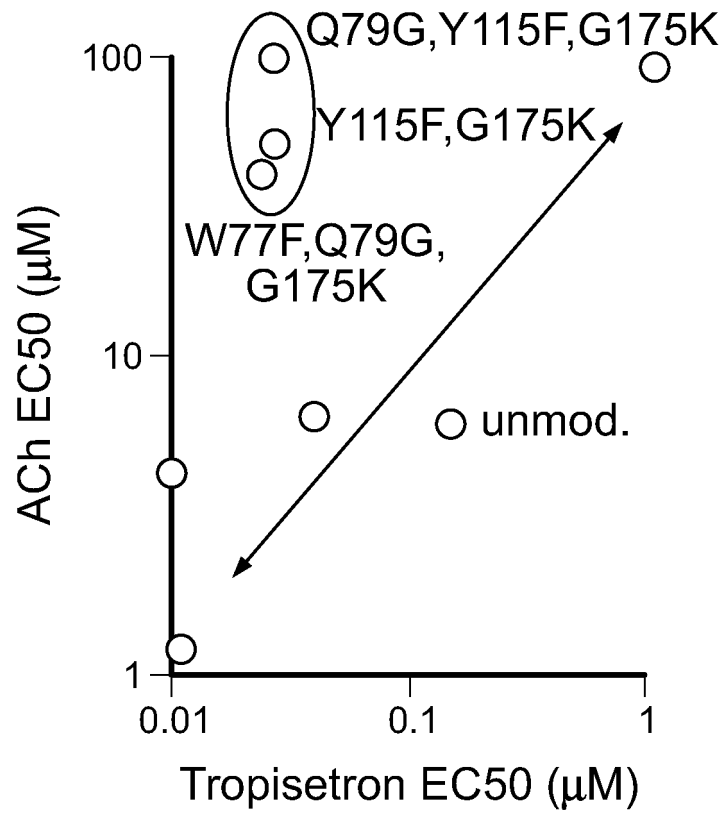


FIG. 8B

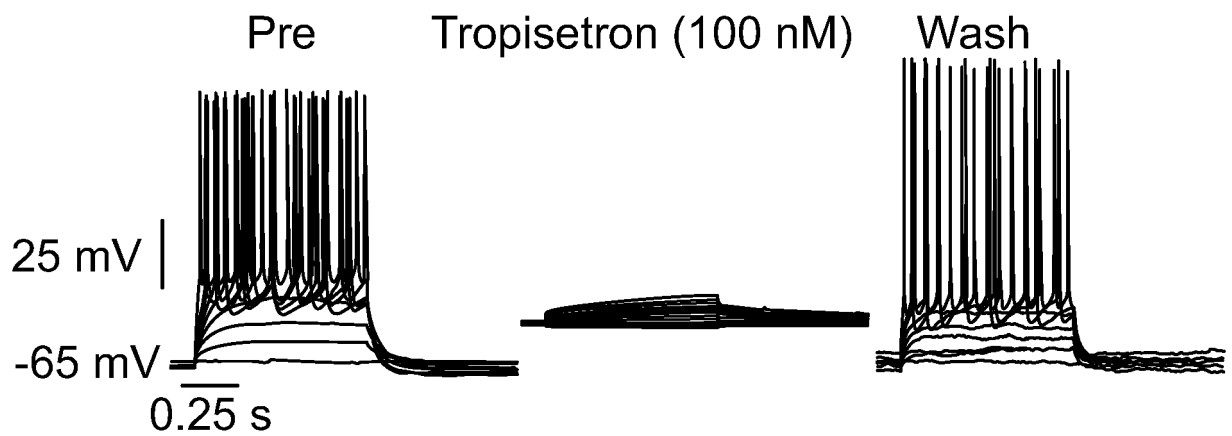


FIG. 8C

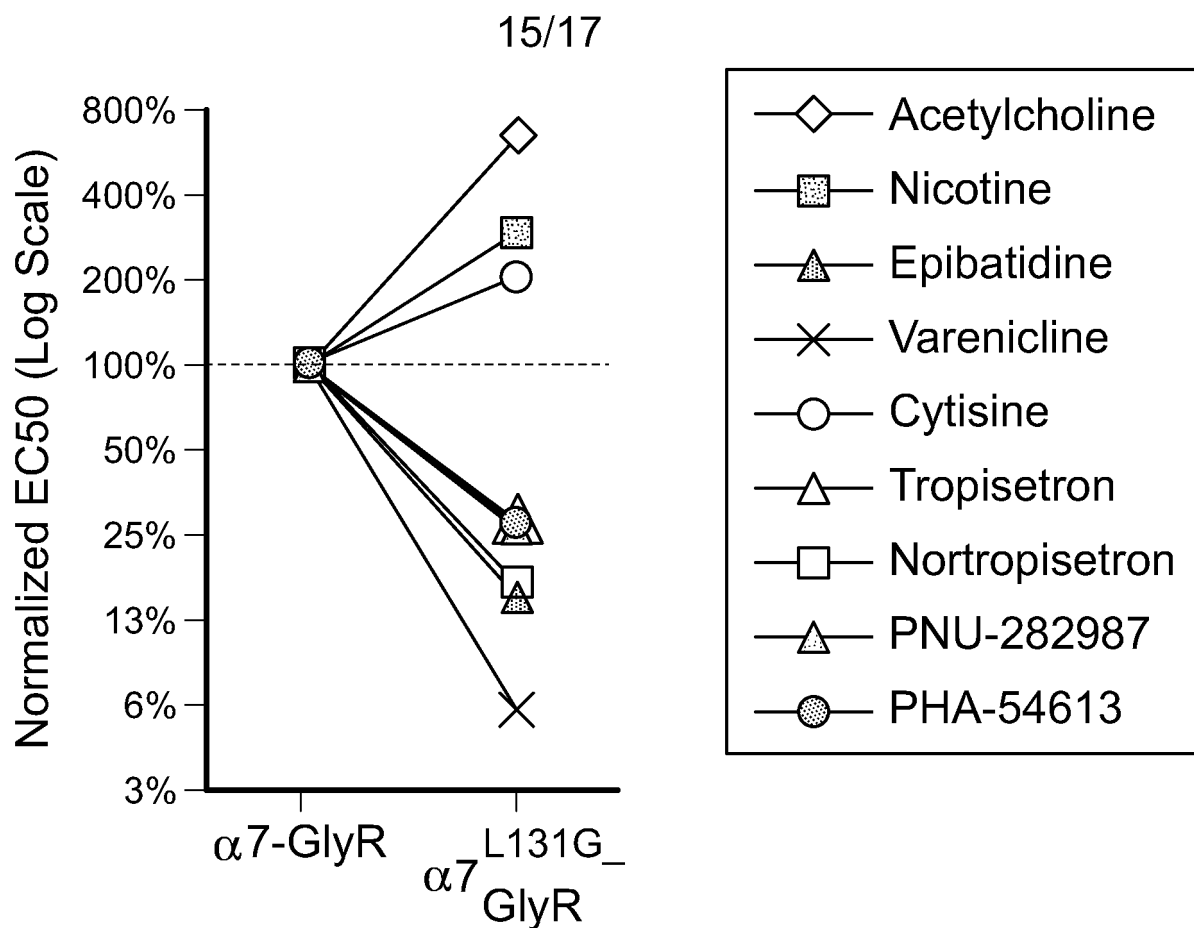


FIG. 9A

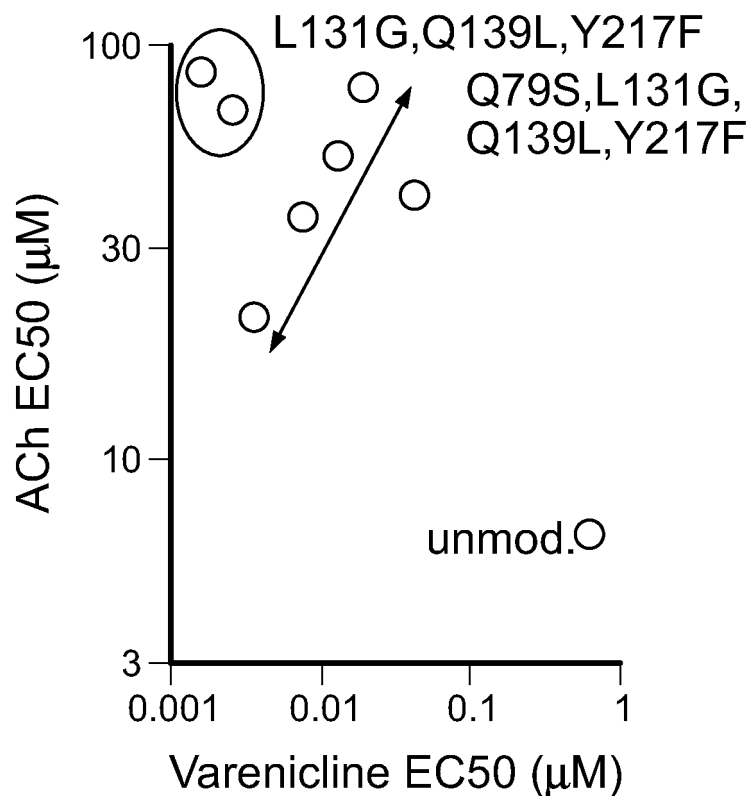


FIG. 9B

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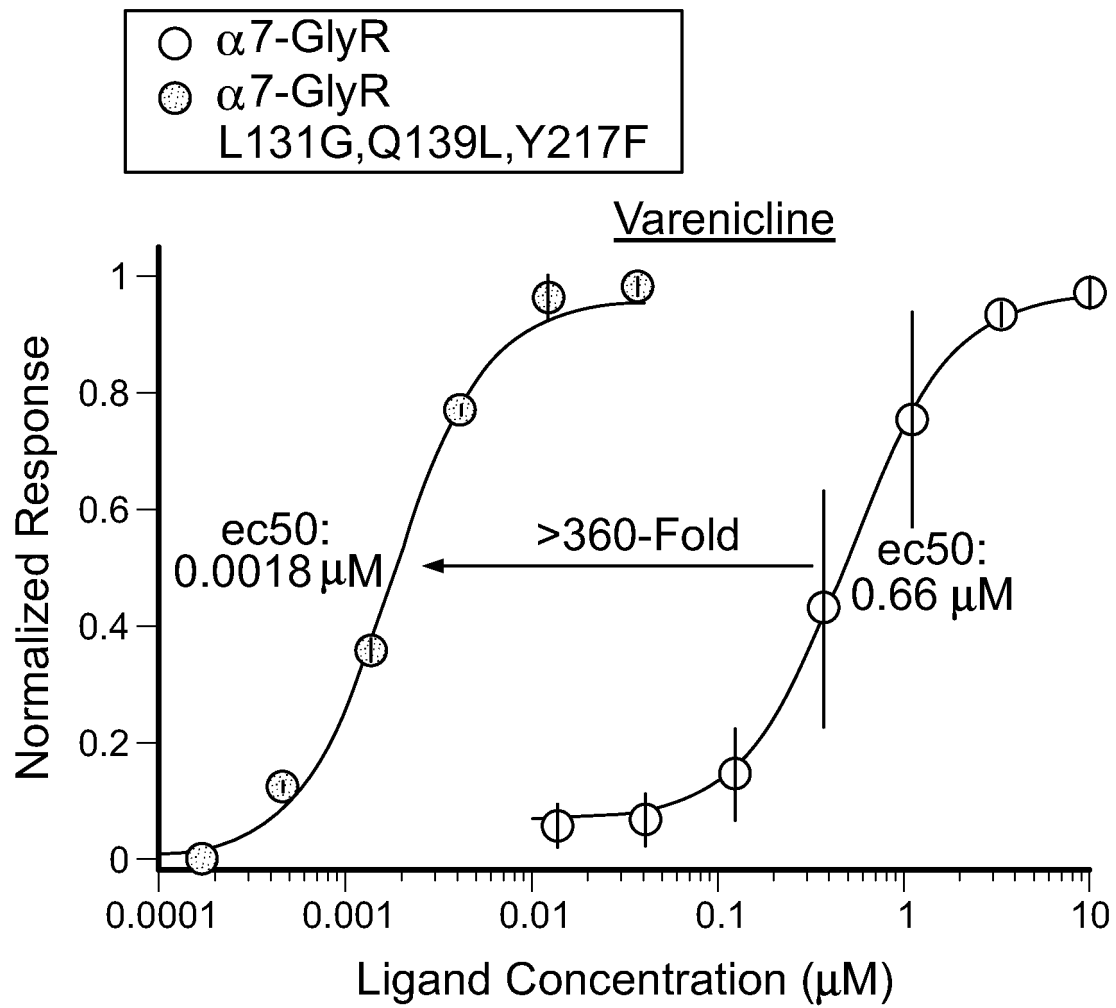


FIG. 9C

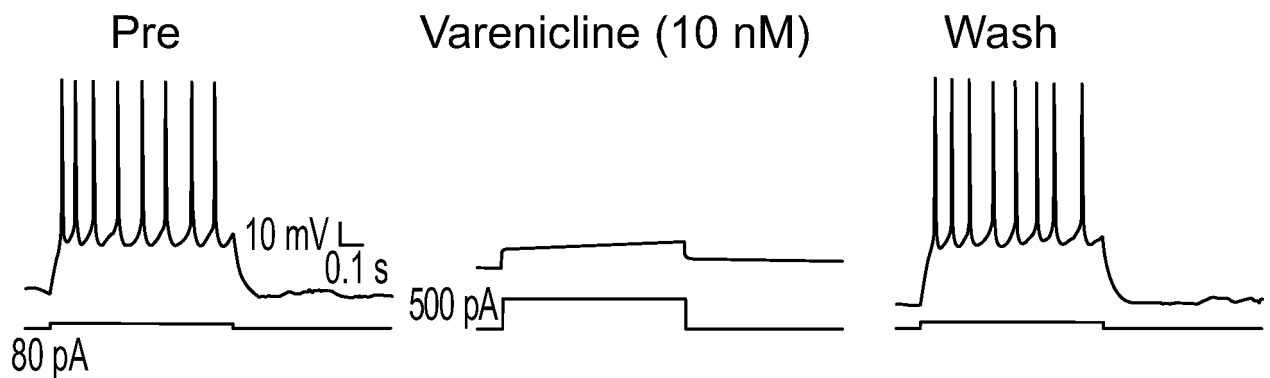
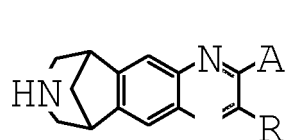
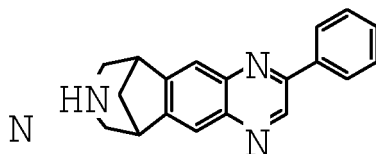


FIG. 9D

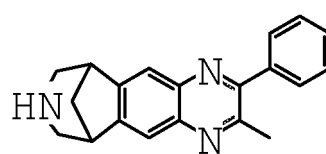
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R = H, CH₃
A = aromatic

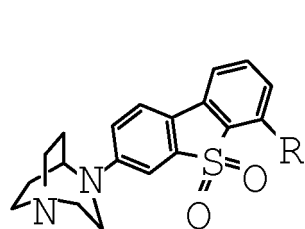


765

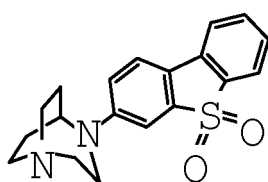


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FIG. 10A

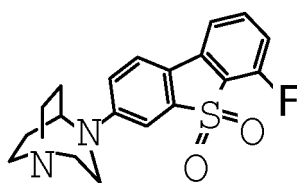


R = H, F, NO₂



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3-(1,4-diazabicyclo[3.2.2]
nonan-4-yl)dibenzo[b,d]
thiophene 5,5-dioxide



774

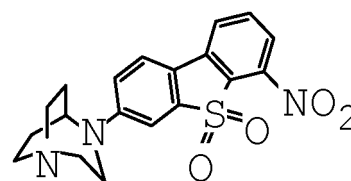


FIG. 10B