

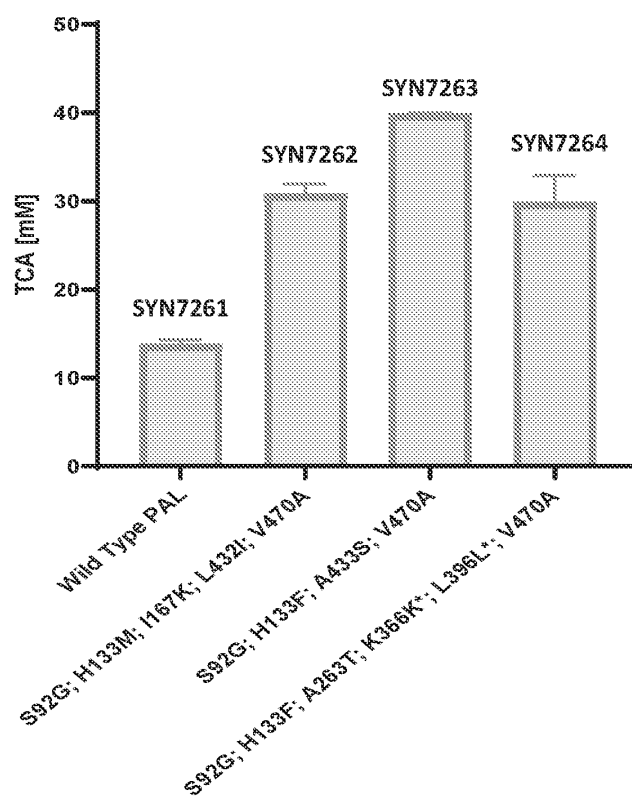


FIG. 1

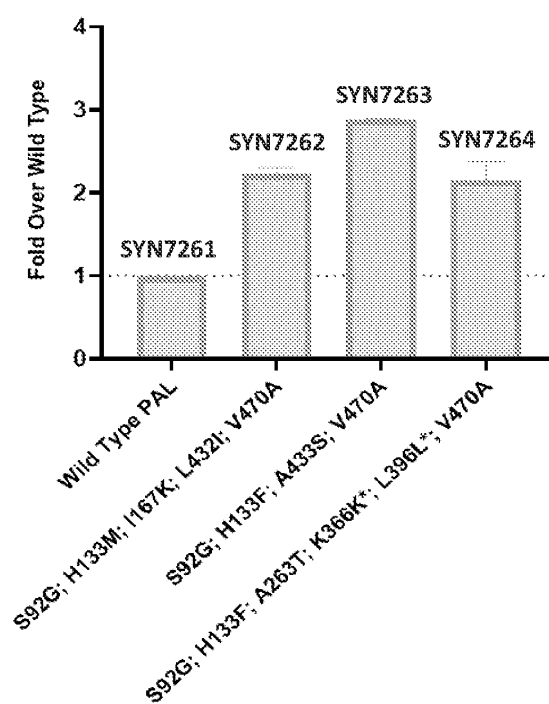


FIG. 2

PAL Variant	Strain No	V_{max} (μmol TCA/min)	K_m (mM Phe)	Correlation
Wild Type	SYN7261	3.19	1.67	0.960
mPAL1	SYN7262	11.95	4.03	0.983
mPAL2	SYN7263	10.7	4.39	0.974
mPAL3	SYN7264	11.46	3.72	0.981

FIG. 3B

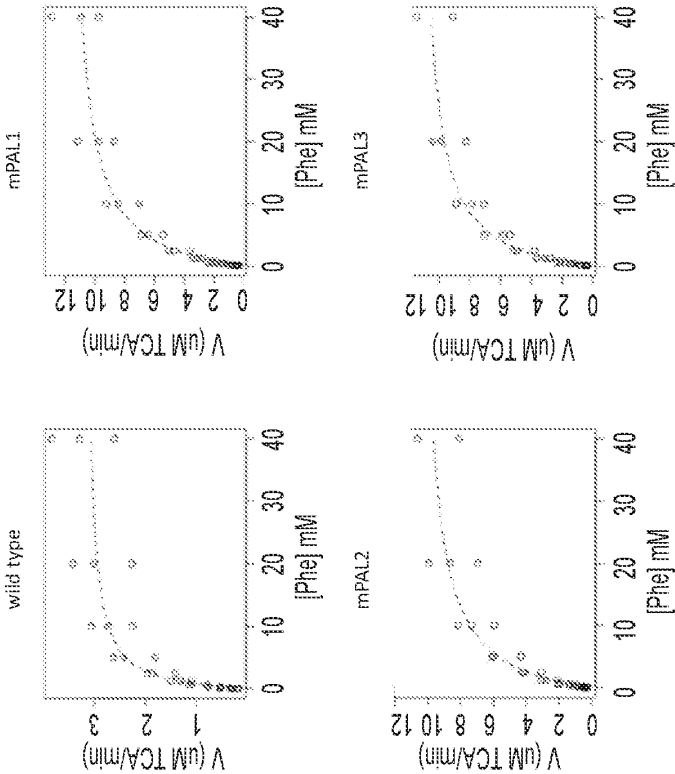


FIG. 3A

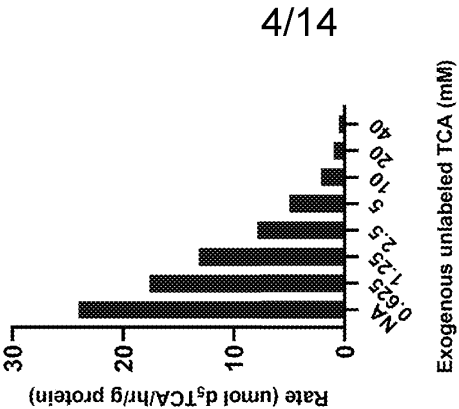


FIG. 4C

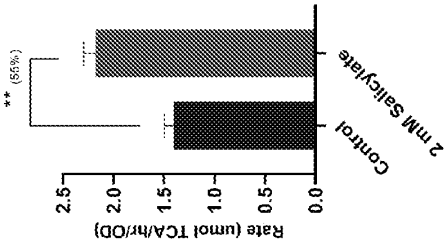


FIG. 4B

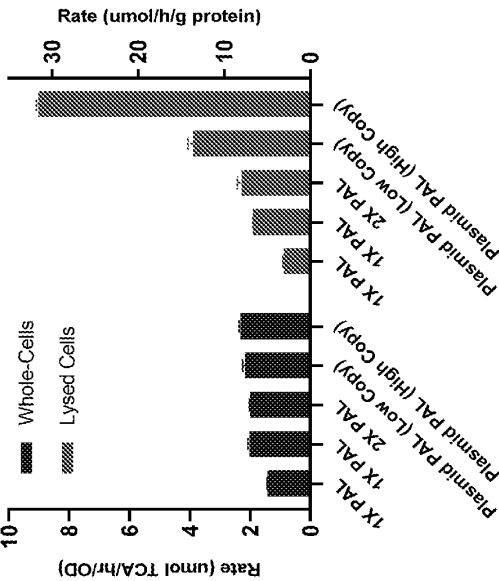
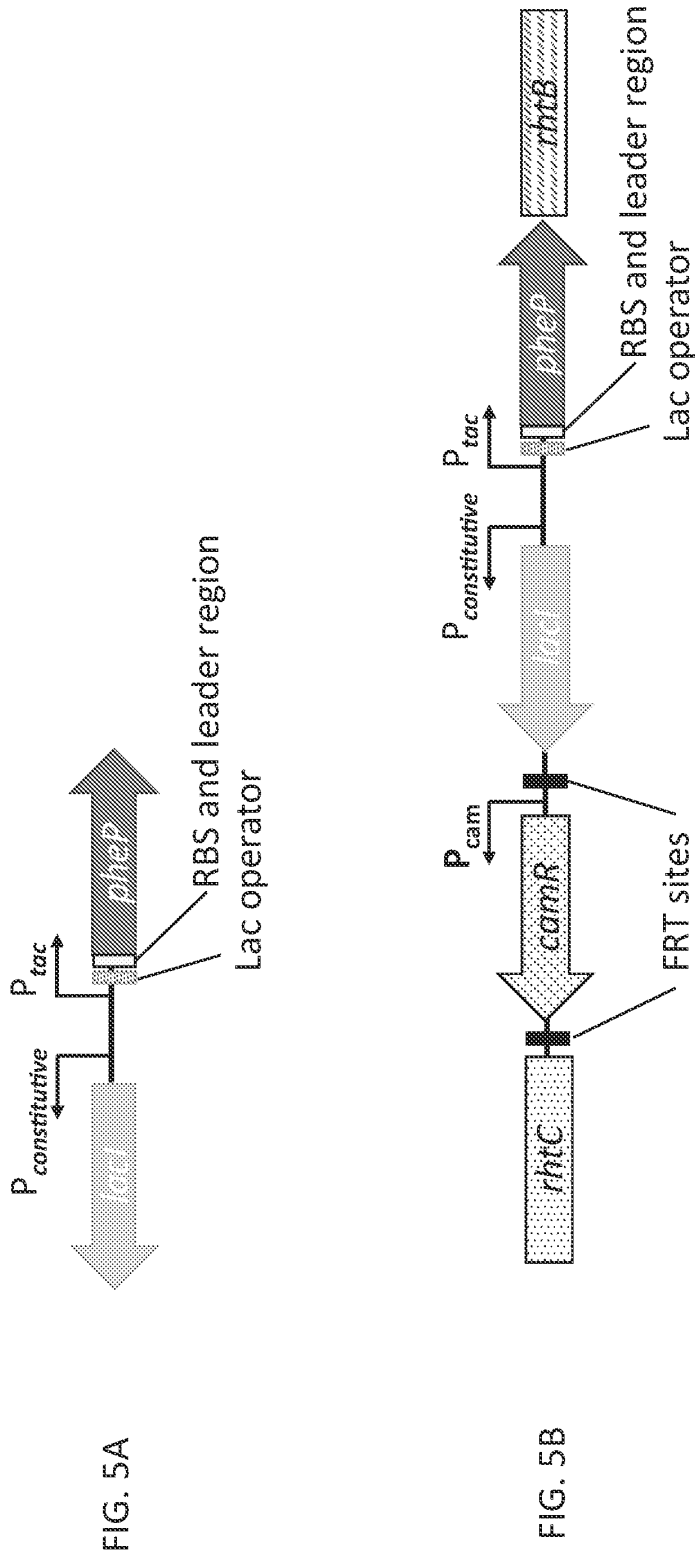


FIG. 4A



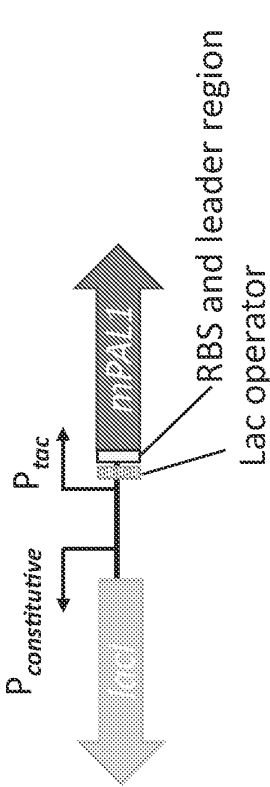


FIG. 6A

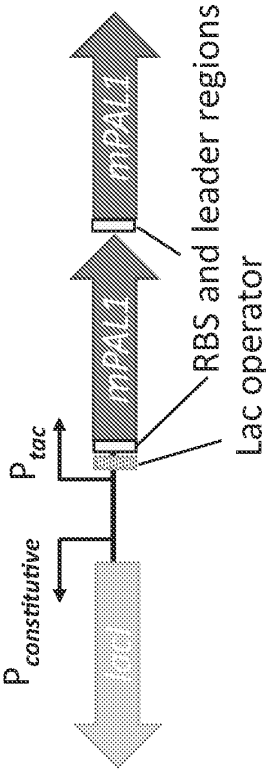


FIG. 6B

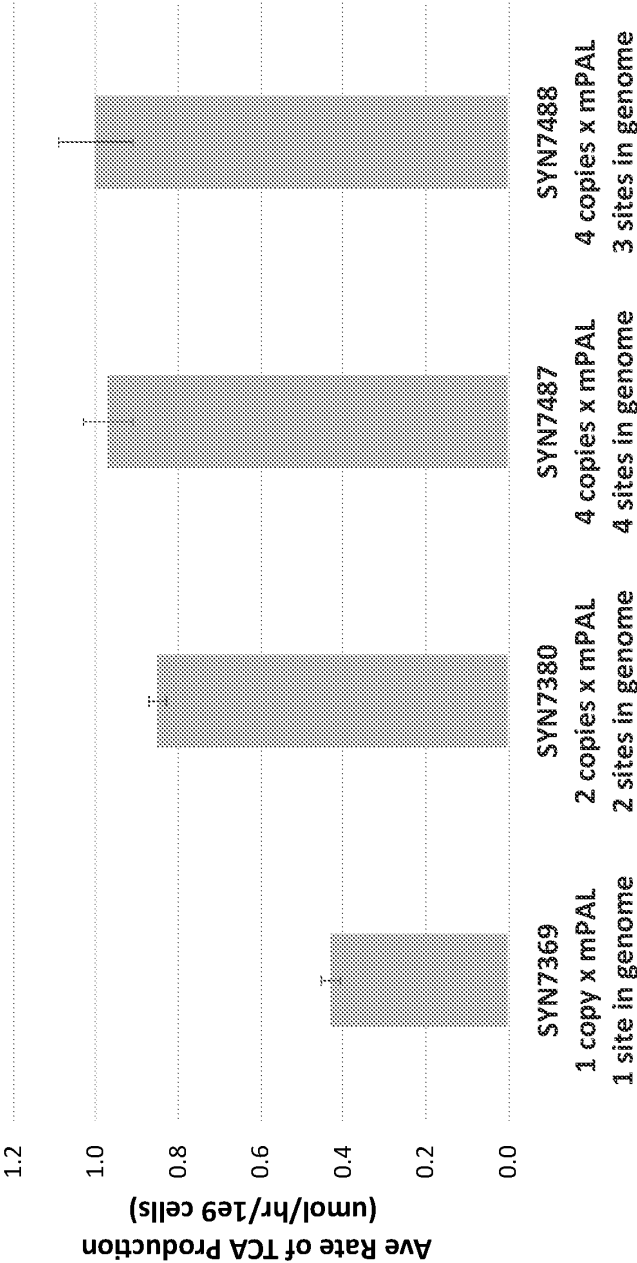


FIG. 7

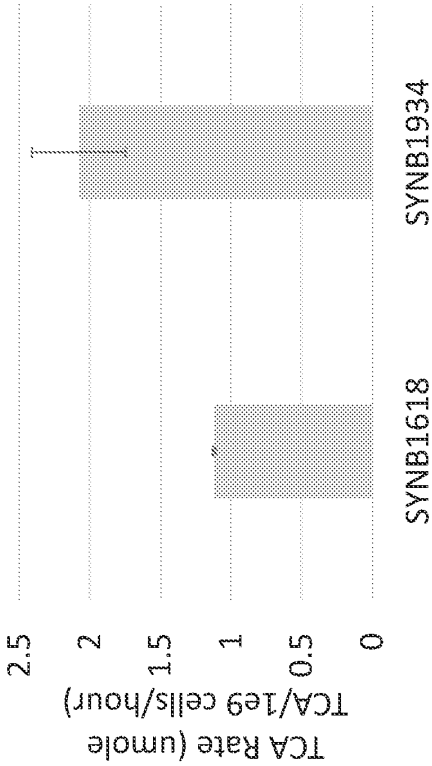


FIG. 8

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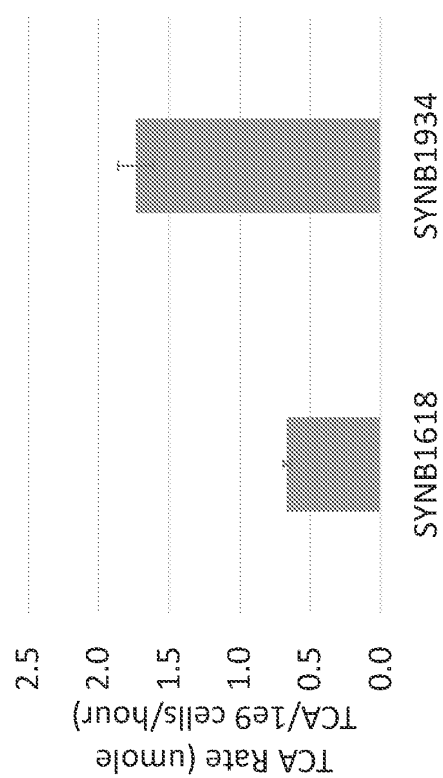


FIG. 9

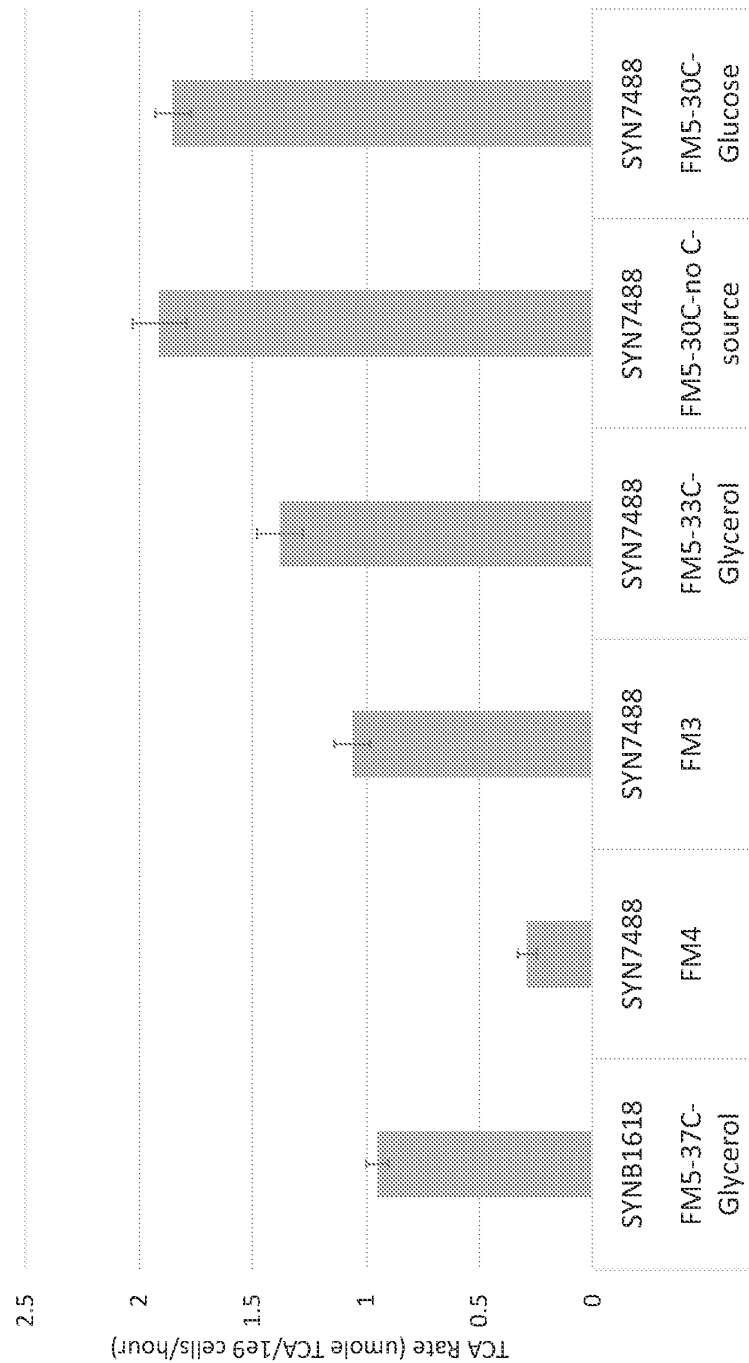


FIG. 10

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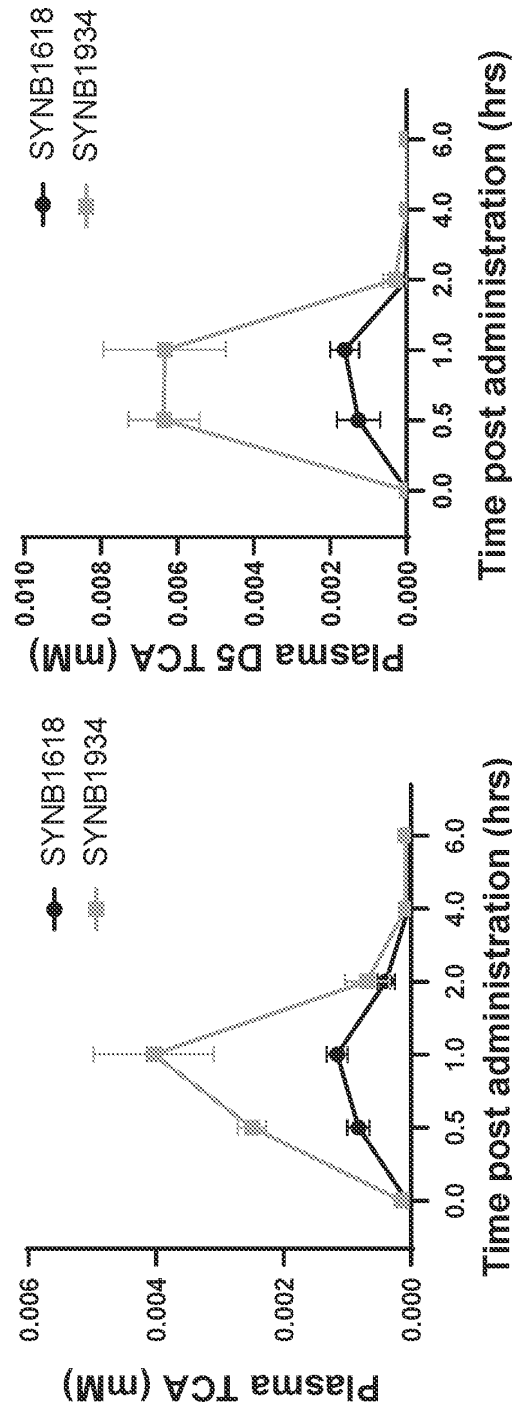


FIG. 11B

FIG. 11A

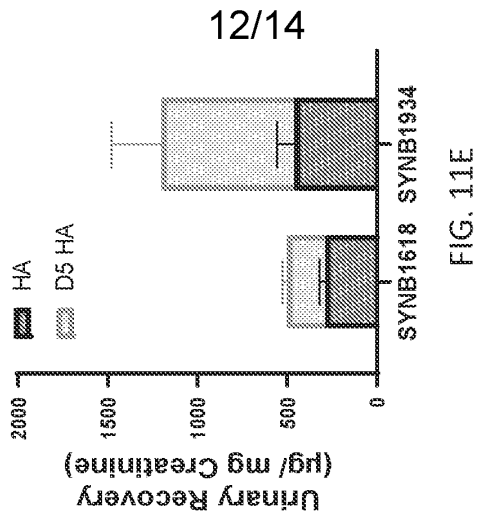


FIG. 11E

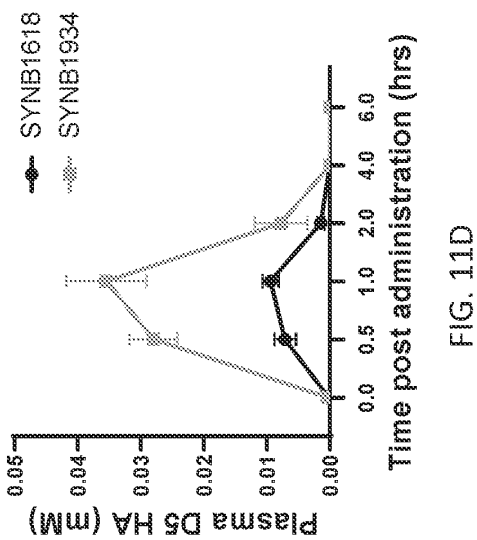


FIG. 11D

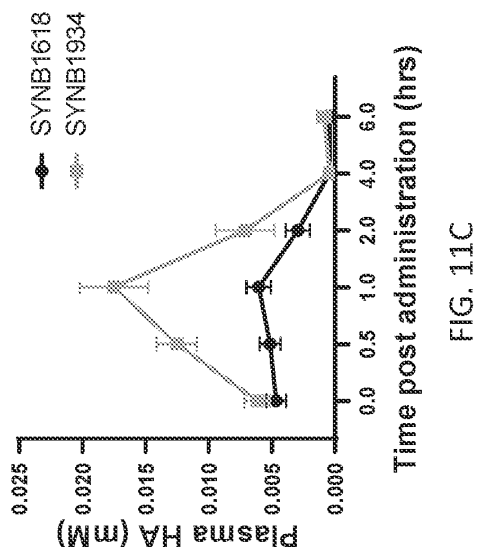


FIG. 11C

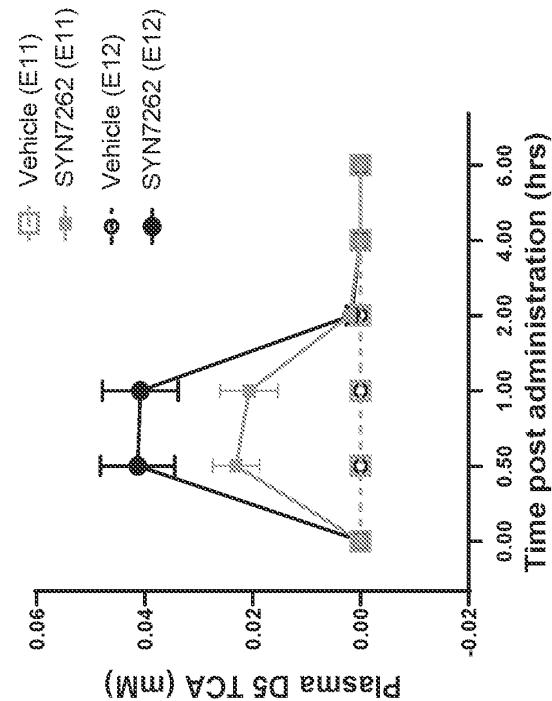


FIG. 12B

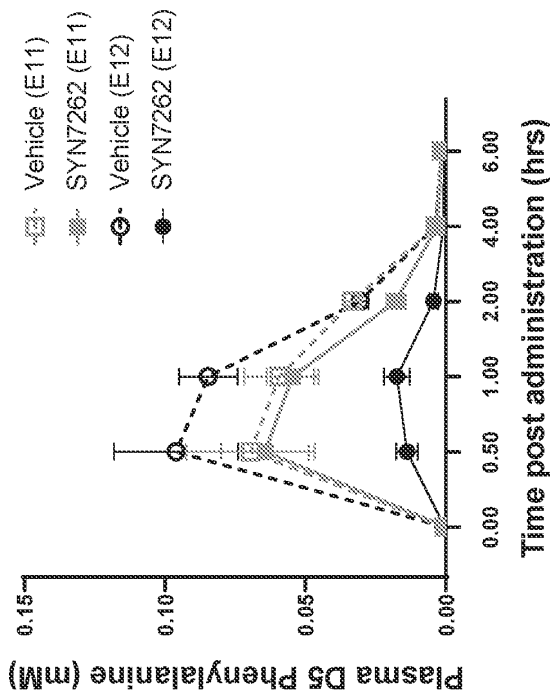


FIG. 12A

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