

SHCwt	MAEQLVEAPAYARTLDRAVEYLLSCQKDEGYWGWGPLLNSNVTMEAEYVLLCHILDRVDRDRMEKIRRYLLHEQREDGTWALYPGGPP	86
SHC1	MAEQLVEAPAYARTLDRAVEYLLSCQKDEGYWGWGPLLNSNVTMEAEYVLLCHILDRVDRDRMEKIRRYLLHEQREDGTWALYPGGPP	86
SHC2	MAEQLVEAPAYARTLDRAVEYLLSCQKDEGYWGWGPLLNSNVTMEAEYVLLCHILDRVDRDRMEKIRRYLLHEQREDGTWALYPGGPP	86
SHC3	MAEQLVEAPAYARTLDRAVEYLLSCQKDEGYWGWGPLLNSNVTMEAEYVLLCHILDRVDRDRMEKIRRYLLHEQREDGTWALYPGGPP	86
SHC4	MAEQLVEAPAYARTLDRAVEYLLSCQKDEGYWGWGPLLNSNVTMEAEYVLLCHILDRVDRDRMEKIRRYLLHEQREDGTWALYPGGPP	86
SHC5	MAEQLVEAPAYARTLDRAVEYLLSCQKDEGYWGWGPLLNSNVTMEAEYVLLCHILDRVDRDRMEKIRRYLLHEQREDGTWALYPGGPP	86
SHC6	MAEQLVEAPAYARTLDRAVEYLLSCQKDEGYWGWGPLLNSNVTMEAEYVLLCHILDRVDRDRMEKIRRYLLHEQREDGTWALYPGGPP	86
SHC7	MAEQLVEAPAYARTLDRAVEYLLSCQKDEGYWGWGPLLNSNVTMEAEYVLLCHILDRVDRDRMEKIRRYLLHEQREDGTWALYPGGPP	86
SHC8	MAEQLVEAPAYARTLDRAVEYLLSCQKDEGYWGWGPLLNSNVTMEAEYVLLCHILDRVDRDRMEKIRRYLLHEQREDGTWALYPGGPP	86
SHC9	MAEQLVEAPAYARTLDRAVEYLLSCQKDEGYWGWGPLLNSNVTMEAEYVLLCHILDRVDRDRMEKIRRYLLHEQREDGTWALYPGGPP	86
SHC10	MAEQLVEAPAYARTLDRAVEYLLSCQKDEGYWGWGPLLNSNVTMEAEYVLLCHILDRVDRDRMEKIRRYLLHEQREDGTWALYPGGPP	86
SHCwt	DLDTTIEAYVALKYIGMSRDEEPMQKALRFIQSQGGIESSRVFTRMWLALVGEYPWEKVPMPVPEIMFLGKRMPLNIYEFGSWARA	172
SHC1	DLDTTIEAYVALKYIGMSRDEEPMQKALRFIQSQGGIESSRVFTRMWLALVGEYPWEKVPMPVPEIMFLGKRMPLNIYEFGSWARA	172
SHC2	DLDTTIEAYVALKYIGMSRDEEPMQKALRFIQSQGGIESSRVFTRMWLALVGEYPWEKVPMPVPEIMFLGKRMPLNIYEFGSWARA	172
SHC3	DLDTTIEAYVALKYIGMSRDEEPMQKALRFIQSQGGIESSRVFTRMWLALVGEYPWEKVPMPVPEIMFLGKRMPLNIYEFGSWARA	172
SHC4	DLDTTIEAYVALKYIGMSRDEEPMQKALRFIQSQGGIESSRVFTRMWLALVGEYPWEKVPMPVPEIMFLGKRMPLNIYEFGSWARA	172
SHC5	DLDTTIEAYVALKYIGMSRDEEPMQKALRFIQSQGGIESSRVFTRMWLALVGEYPWEKVPMPVPEIMFLGKRMPLNIYEFGSWARA	172
SHC6	DLDTTIEAYVALKYIGMSRDEEPMQKALRFIQSQGGIESSRVFTRMWLALVGEYPWEKVPMPVPEIMFLGKRMPLNIYEFGSWARA	172
SHC7	DLDTTIEAYVALKYIGMSRDEEPMQKALRFIQSQGGIESSRVFTRMWLALVGEYPWEKVPMPVPEIMFLGKRMPLNIYEFGSWARA	172
SHC8	DLDTTIEAYVALKYIGMSRDEEPMQKALRFIQSQGGIESSRVFTRMWLALVGEYPWEKVPMPVPEIMFLGKRMPLNIYEFGSWARA	172
SHC9	DLDTTIEAYVALKYIGMSRDEEPMQKALRFIQSQGGIESSRVFTRMWLALVGEYPWEKVPMPVPEIMFLGKRMPLNIYEFGSWARA	172
SHC10	DLDTTIEAYVALKYIGMSRDEEPMQKALRFIQSQGGIESSRVFTRMWLALVGEYPWEKVPMPVPEIMFLGKRMPLNIYEFGSWARA	172

FIG. 1

SHCwt	TVVALSIVMSRQPVFFPLPERARVPPELYETDVP	PPRRRGAKGGGWIFDALDRALHGYQKLSVHPFRRAAE	IRALDWLLERQAGDGSW	258
SHC1	TVVALSIVMSRQPVFFPLPERARVPPELYETDVP	PPRRRGAKGGGWIFDALDRALHGYQKLSVHPFRRAAE	IRALDWLLERQAGDGSW	258
SHC2	TVVALSIVMSRQPVFFPLPERARVPPELYETDVP	PPRRRGAKGGGWIFDALDRALHGYQKLSVHPFRRAAE	IRALDWLLERQAGDGSW	258
SHC3	TVVALSIVMSRQPVFFPLPERARVPPELYETDVP	PPRRRGAKGGGWIFDALDRALHGYQKLSVHPFRRAAE	IRALDWLLERQAGDGSW	258
SHC4	TVVALSIVMSRQPVFFPLPERARVPPELYETDVP	PPRRRGAKGGGWIFDALDRALHGYQKLSVHPFRRAAE	IRALDWLLERQAGDGSW	258
SHC5	TVVALSIVMSRQPVFFPLPERARVPPELYETDVP	PPRRRGAKGGGWIFDALDRALHGYQKLSVHPFRRAAE	IRALDWLLERQAGDGSW	258
SHC6	TVVALSIVMSRQPVFFPLPERARVPPELYETDVP	PPRRRGAKGGGWIFDALDRALHGYQKLSVHPFRRAAE	IRALDWLLERQAGDGSW	258
SHC7	TVVALSIVMSRQPVFFPLPERARVPPELYETDVP	PPRRRGAKGGGWIFDALDRALHGYQKLSVHPFRRAAE	IRALDWLLERQAGDGSW	258
SHC8	TVVALSIVMSRQPVFFPLPERARVPPELYETDVP	PPRRRGAKGGGWIFDALDRALHGYQKLSVHPFRRAAE	IRALDWLLERQAGDGSW	258
SHC9	TVVALSIVMSRQPVFFPLPERARVPPELYETDVP	PPRRRGAKGGGWIFDALDRALHGYQKLSVHPFRRAAE	IRALDWLLERQAGDGSW	258
SHC10	TVVALSIVMSRQPVFFPLPERARVPPELYETDVP	PPRRRGAKGGGWIFDALDRALHGYQKLSVHPFRRAAE	IRALDWLLERQAGDGSW	258
SHCwt	GGIQPPWFYALIALKILDMTQHPAFIKGWEGL	ELEGVELDYGGWMFQASISPVWDTGLAVIALRAAGL	PADHDRLVKAGEWLLDRQ	344
SHC1	GGIQPPWFYALIALKILDMTQHPAFIKGWEGL	ELEGVELDYGGWMFQASISPVWDTGLAVIALRAAGL	PADHDRLVKAGEWLLDRQ	344
SHC2	GGIQPPWFYALIALKILDMTQHPAFIKGWEGL	ELEGVELDYGGWMFQASISPVWDTGLAVIALRAAGL	PADHDRLVKAGEWLLDRQ	344
SHC3	GGIQPPWFYALIALKILDMTQHPAFIKGWEGL	ELEGVELDYGGWMFQASISPVWDTGLAVIALRAAGL	PADHDRLVKAGEWLLDRQ	344
SHC4	GGIQPPWFYALIALKILDMTQHPAFIKGWEGL	ELEGVELDYGGWMFQASISPVWDTGLAVIALRAAGL	PADHDRLVKAGEWLLDRQ	344
SHC5	GGIQPPWFYALIALKILDMTQHPAFIKGWEGL	ELEGVELDYGGWMFQASISPVWDTGLAVIALRAAGL	PADHDRLVKAGEWLLDRQ	344
SHC6	GGIQPPWFYALIALKILDMTQHPAFIKGWEGL	ELEGVELDYGGWMFQASISPVWDTGLAVIALRAAGL	PADHDRLVKAGEWLLDRQ	344
SHC7	GGIQPPWFYALIALKILDMTQHPAFIKGWEGL	ELEGVELDYGGWMFQASISPVWDTGLAVIALRAAGL	PADHDRLVKAGEWLLDRQ	344
SHC8	GGIQPPWFYALIALKILDMTQHPAFIKGWEGL	ELEGVELDYGGWMFQASISPVWDTGLAVIALRAAGL	PADHDRLVKAGEWLLDRQ	344
SHC9	GGIQPPWFYALIALKILDMTQHPAFIKGWEGL	ELEGVELDYGGWMFQASISPVWDTGLAVIALRAAGL	PADHDRLVKAGEWLLDRQ	344
SHC10	GGIQPPWFYALIALKILDMTQHPAFIKGWEGL	ELEGVELDYGGWMFQASISPVWDTGLAVIALRAAGL	PADHDRLVKAGEWLLDRQ	344

FIG. 2

SHCwt	ITVPGDWAVKRPNLKPGGFAFQFDNVYYPDVDDTAVVWALNTLRLPDERRRRRDAMTKGFRWIVGMQSSNGGWGAYDVDNTSDLPN	430
SHC1	ITVPGDWAVKRPNLKPGGFAFQFDNVYYPDVDDTAVVWALNTLRLPDERRRRRDAMTKGFRWIVGMQSSNGGWGAYDVDNTSDLPN	430
SHC2	ITVPGDWAVKRPNLKPGGFAFQFDNVYYPDVDDTAVVWALNTLRLPDERRRRRDAMTKGFRWIVGMQSSNGGWGAYDVDNTSDLPN	430
SHC3	ITVPGDWAVKRPNLKPGGFAFQFDNVYYPDVDDTAVVWALNTLRLPDERRRRRDAMTKGFRWIVGMQSSNGGWGAYDVDNTSDLPN	430
SHC4	ITVPGDWAVKRPNLKPGGFAFQFDNVYYPDVDDTAVVWALNTLRLPDERRRRRDAMTKGFRWIVGMQSSNGGWGAYDVDNTSDLPN	430
SHC5	ITVPGDWAVKRPNLKPGGFAFQFDNVYYPDVDDTAVVWALNTLRLPDERRRRRDAMTKGFRWIVGMQSSNGGWGAYDVDNTSDLPN	430
SHC6	ITVPGDWAVKRPNLKPGGFAFQFDNVYYPDVDDTAVVWALNTLRLPDERRRRRDAMTKGFRWIVGMQSSNGGWGAYDVDNTSDLPN	430
SHC7	ITVPGDWAVKRPNLKPGGFAFQFDNVYYPDVDDTAVVWALNTLRLPDERRRRRDAMTKGFRWIVGMQSSNGGWGAYDVDNTSDLPN	430
SHC8	ITVPGDWAVKRPNLKPGGFAFQFDNVYYPDVDDTAVVWALNTLRLPDERRRRRDAMTKGFRWIVGMQSSNGGWGAYDVDNTSDLPN	430
SHC9	ITVPGDWAVKRPNLKPGGFAFQFDNVYYPDVDDTAVVWALNTLRLPDERRRRRDAMTKGFRWIVGMQSSNGGWGAYDVDNTSDLPN	430
SHC10	ITVPGDWAVKRPNLKPGGFAFQFDNVYYPDVDDTAVVWALNTLRLPDERRRRRDAMTKGFRWIVGMQSSNGGWGAYDVDNTSDLPN	430
SHCwt	HIPFCDFGEVTDPPSEDEVTAHVLECFSGFGYDDAWKVIRRAVEYILKREQKPDGSGWFGRWGVNLYLGTGAVVSALKAVGIDTREPVI	516
SHC1	HIPFCDFGEVTDPPSEDEVTAHVLECFSGFGYDDAWKVIRRAVEYILKREQKPDGSGWFGRWGVNLYLGTGAVVSALKAVGIDTREPVI	516
SHC2	HIPFCDFGEVTDPPSEDEVTAHVLECFSGFGYDDAWKVIRRAVEYILKREQKPDGSGWFGRWGVNLYLGTGAVVSALKAVGIDTREPVI	516
SHC3	HIPFCDFGEVTDPPSEDEVTAHVLECFSGFGYDDAWKVIRRAVEYILKREQKPDGSGWFGRWGVNLYLGTGAVVSALKAVGIDTREPVI	516
SHC4	HIPFCDFGEVTDPPSEDEVTAHVLECFSGFGYDDAWKVIRRAVEYILKREQKPDGSGWFGRWGVNLYLGTGAVVSALKAVGIDTREPVI	516
SHC5	HIPFCDFGEVTDPPSEDEVTAHVLECFSGFGYDDAWKVIRRAVEYILKREQKPDGSGWFGRWGVNLYLGTGAVVSALKAVGIDTREPVI	516
SHC6	HIPFCDFGEVTDPPSEDEVTAHVLECFSGFGYDDAWKVIRRAVEYILKREQKPDGSGWFGRWGVNLYLGTGAVVSALKAVGIDTREPVI	516
SHC7	HIPFCDFGEVTDPPSEDEVTAHVLECFSGFGYDDAWKVIRRAVEYILKREQKPDGSGWFGRWGVNLYLGTGAVVSALKAVGIDTREPVI	516
SHC8	HIPFCDFGEVTDPPSEDEVTAHVLECFSGFGYDDAWKVIRRAVEYILKREQKPDGSGWFGRWGVNLYLGTGAVVSALKAVGIDTREPVI	516
SHC9	HIPFCDFGEVTDPPSEDEVTAHVLECFSGFGYDDAWKVIRRAVEYILKREQKPDGSGWFGRWGVNLYLGTGAVVSALKAVGIDTREPVI	516
SHC10	HIPFCDFGEVTDPPSEDEVTAHVLECFSGFGYDDAWKVIRRAVEYILKREQKPDGSGWFGRWGVNLYLGTGAVVSALKAVGIDTREPVI	516

FIG. 3

SHCwt	QKALDWVEQHQNPDGGWGEDCRSYEDPAYAGKGASTPSQTAWALMALIAGGRAESEAARRGVQYLIVETQRPDGGWDEPYTGTGFP	602
SHC1	QKALDWVEQHQNPDGGWGEDCRSYEDPAYAGKGASTPSQTAWALMALIAGGRAESEAARRGVHLYIVETQRPDGGWDEPYTGTGYP	602
SHC2	QKALDWVEQHQNPDGGWGEDCRSYEDPAYAGKGASTPSQTAWALMALIAGGRAESEAARRGVQYLIVETQRPDGGWDEPYTGTGFP	602
SHC3	QKALDWVEQHQNPDGGWGEDCRSYEDPAYAGKGASTPSQTAWALMALIAGGRAESEAARRGVQYLIVETQRPDGGWDEPYTGTGFP	602
SHC4	QKALDWVEQHQNPDGGWGEDCRSYEDPAYAGKGASTPSQTAWALMALIAGGRAESEAARRGVQYLIVETQRPDGGWDEPYTGTGYP	602
SHC5	QKALDWVEQHQNPDGGWGEDCRSYEDPAYAGKGASTPSQTAWALMALIAGGRAESEAARRGVQYLIVETQRPDGGWDEPYTGTGFP	602
SHC6	QKALDWVEQHQNPDGGWGEDCRSYEDPAYAGKGASTPSQTAWALMALIAGGRAESEAARRGVQYLIVETQRPDGGWDEPYTGTGFP	602
SHC7	QKALDWVEQHQNPDGGWGEDCRSYEDPAYAGKGASTPSQTAWALMALIAGGRAESEAARRGVQYLIVETQRPDGGWDEPYTGTGYP	602
SHC8	QKALDWVEQHQNPDGGWGEDCRSYEDPAYAGKGASTPSQTAWALMALIAGGRAESEAARRGVQYLIVETQRPDGGWDEPYTGTGFP	602
SHC9	QKALDWVEQHQNPDGGWGEDCRSYEDPAYAGKGASTPSQTAWALMALIAGGRAESEAARRGVQYLIVETQRPDGGWDEPYTGTGYP	602
SHC10	QKALDWVEQHQNPDGGWGEDCRSYEDPAYAGKGASTPSQTAWALMALIAGGRAESEAARRGVQYLIVETQRPDGGWDEPYTGTGYP	602
SHCwt	GDFYLGTYMYRHVFPTLALGRYKQAIERR	631
SHC1	GDFYLGTYMYRHVFPTLALGRYKQAIERR	631
SHC2	GDFYLGTYMYRHVFPTLALGRYKQAIERR	631
SHC3	GDFYLGTYMYRHVFPTLALGRYKQAIERR	631
SHC4	GDFYLGTYMYRHVFPTLALGRYKQAIERR	631
SHC5	GDFYLGTYMYRHVFPTLALGRYKQAIERR	631
SHC6	GDFYLGTYMYRHVFPTLALGRYKQAIERR	631
SHC7	GDFYLGTYMYRHVFPTLALGRYKQAIERR	631
SHC8	GDFYLGTYMYRHVFPTLALGRYKQAIERR	631
SHC9	GDFYLGTYMYRHVFPTLALGRYKQAIERR	631

FIG. 4

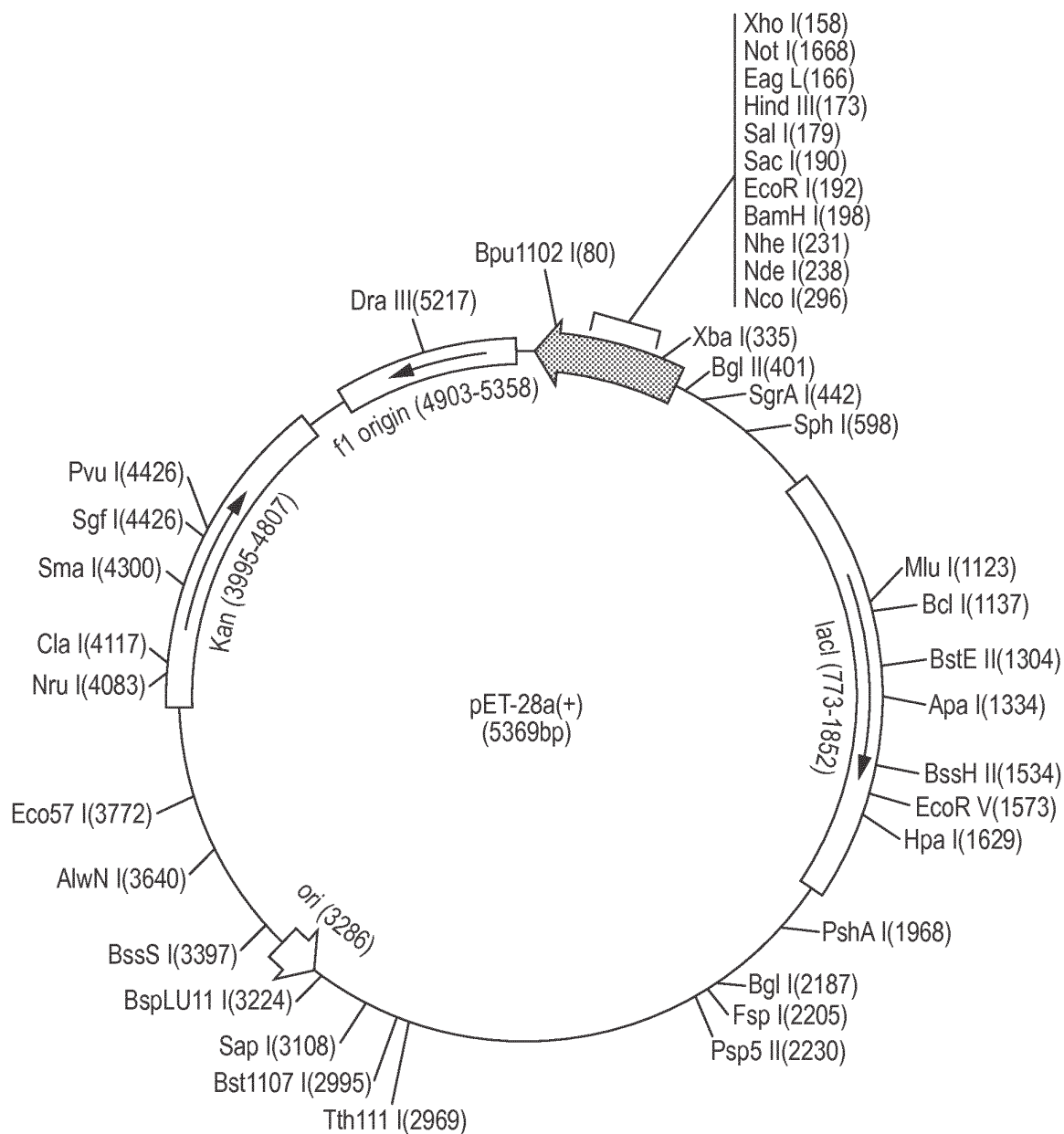


FIG. 5

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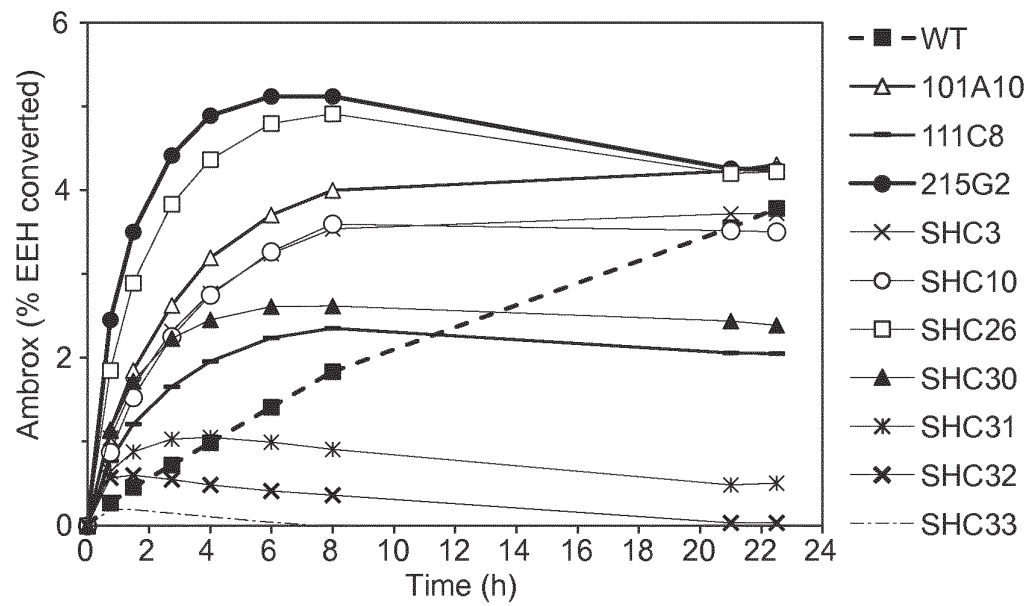


FIG. 6

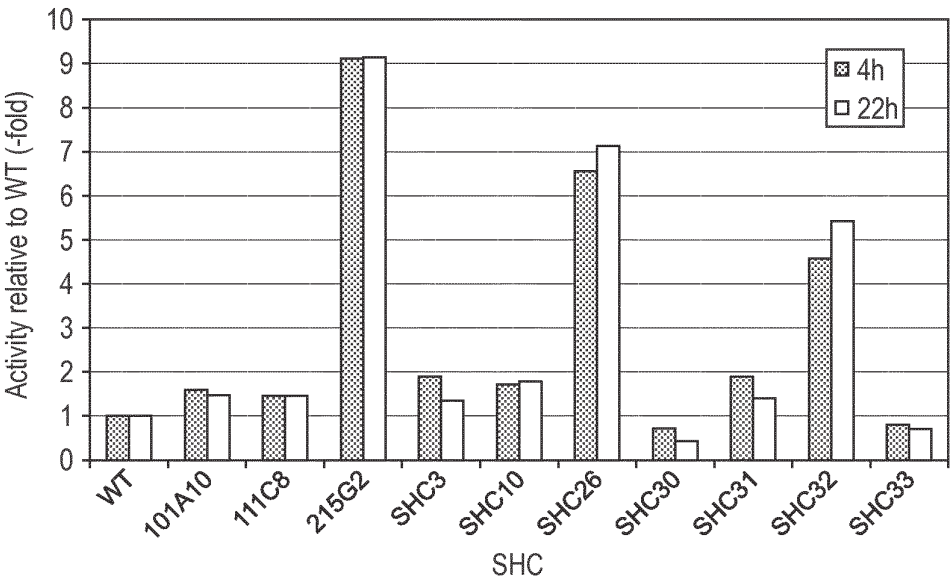


FIG. 7a

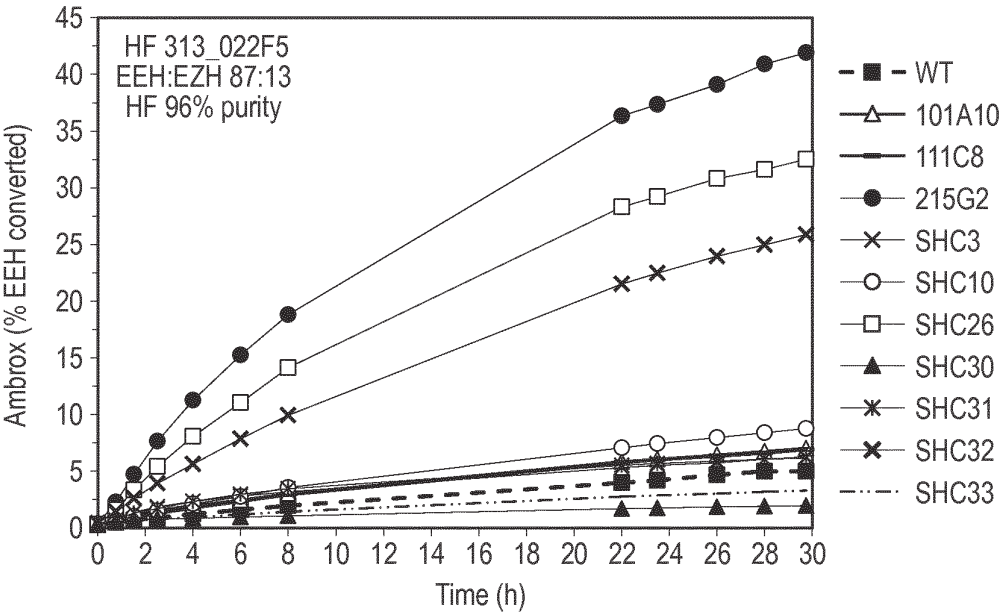


FIG. 7b

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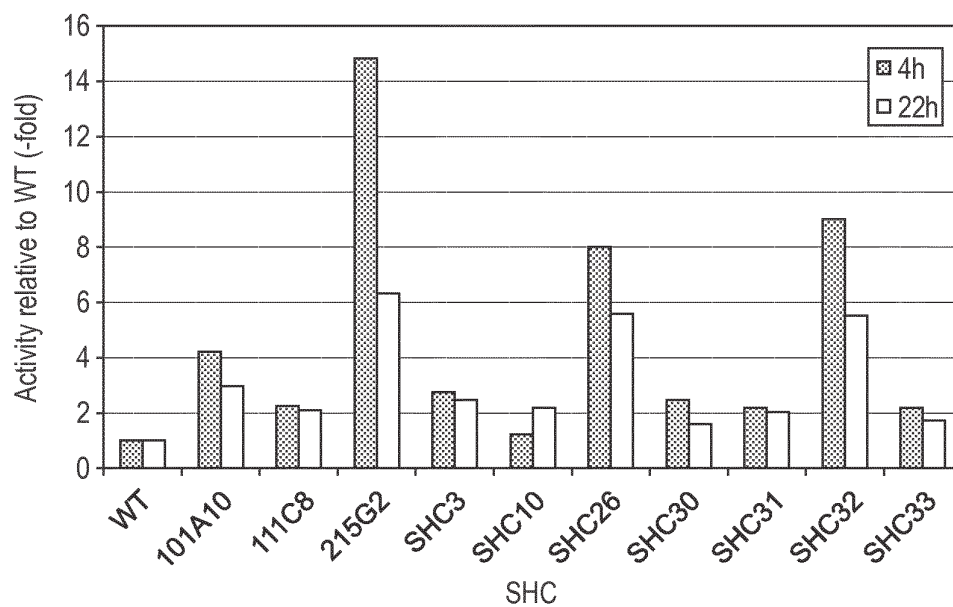


FIG. 8a

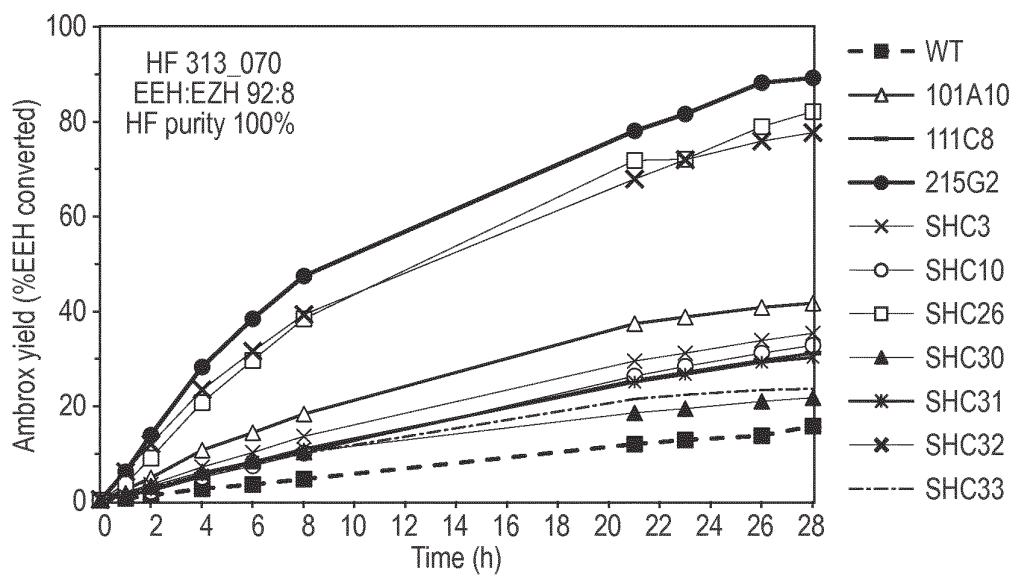


FIG. 8b

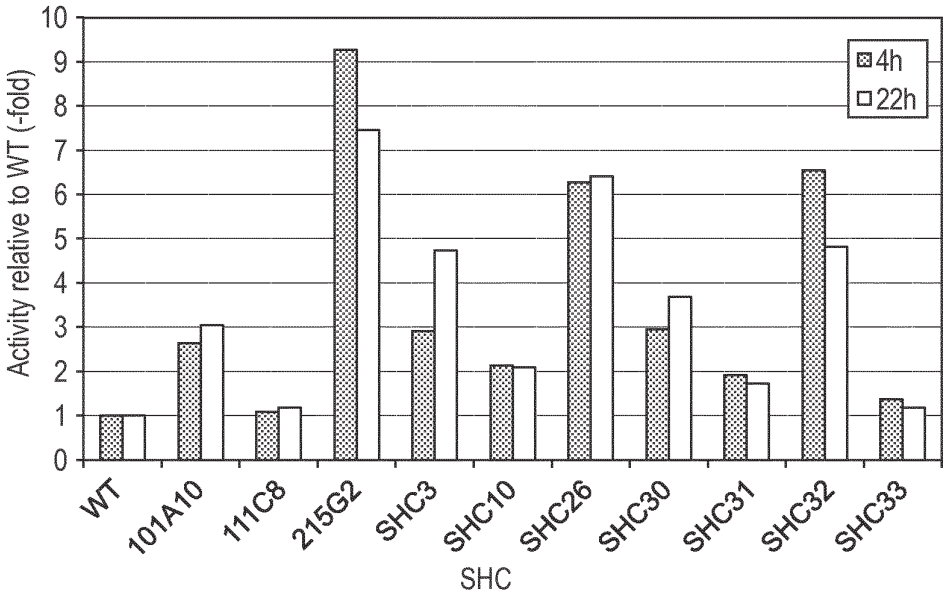


FIG. 9a

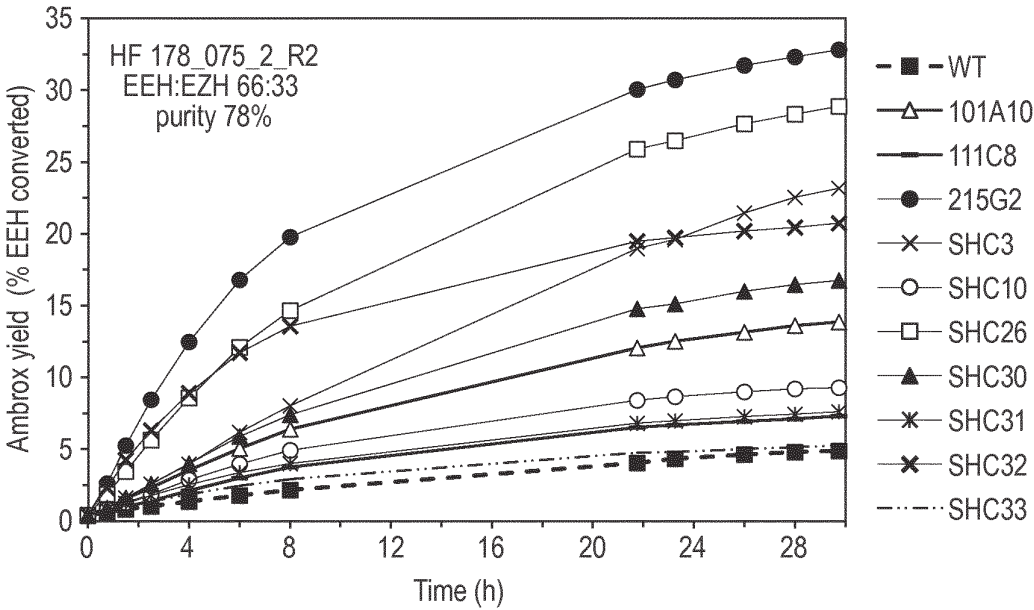


FIG. 9b

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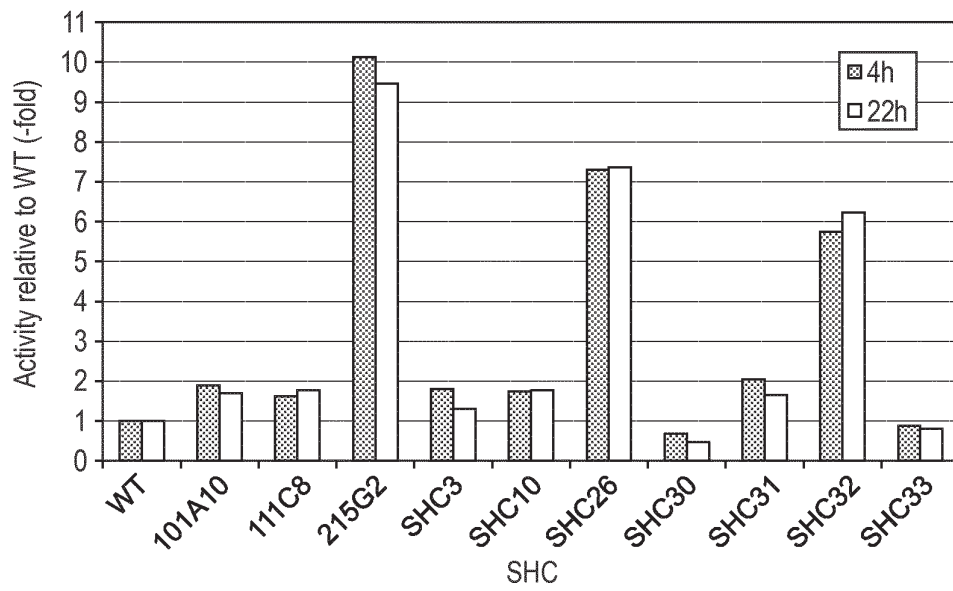


FIG. 10

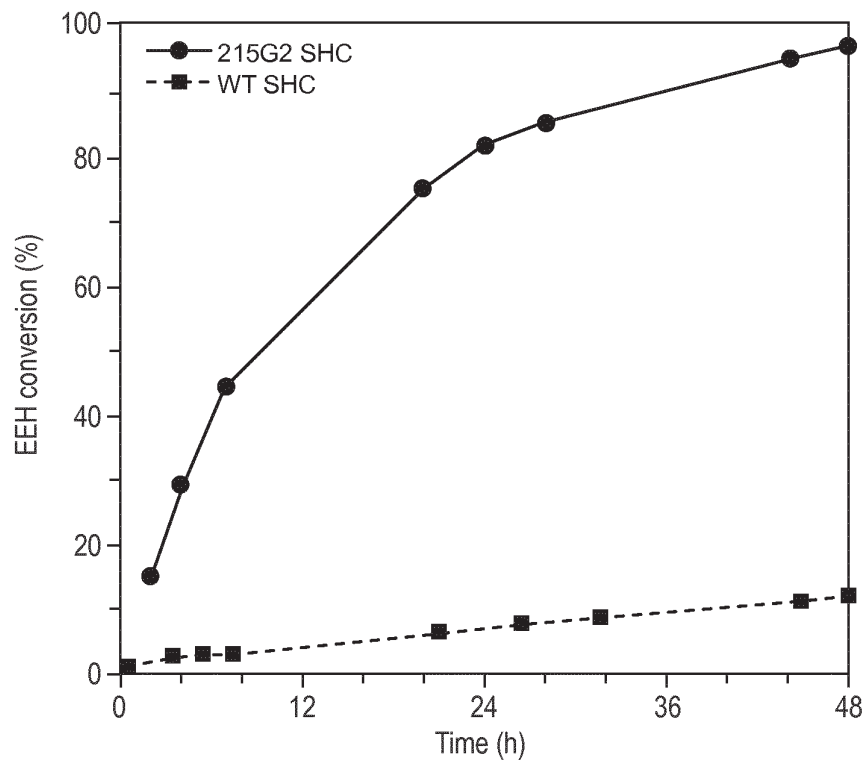


FIG. 11

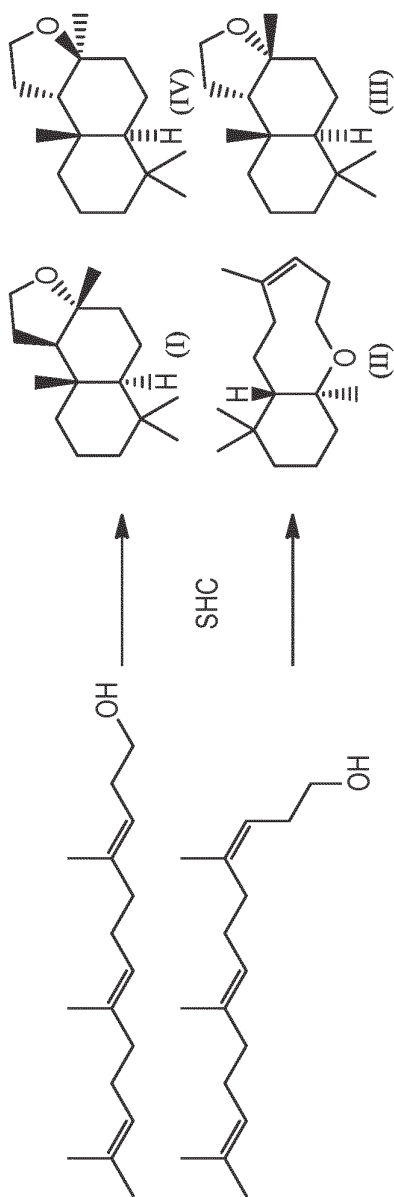


FIG. 12

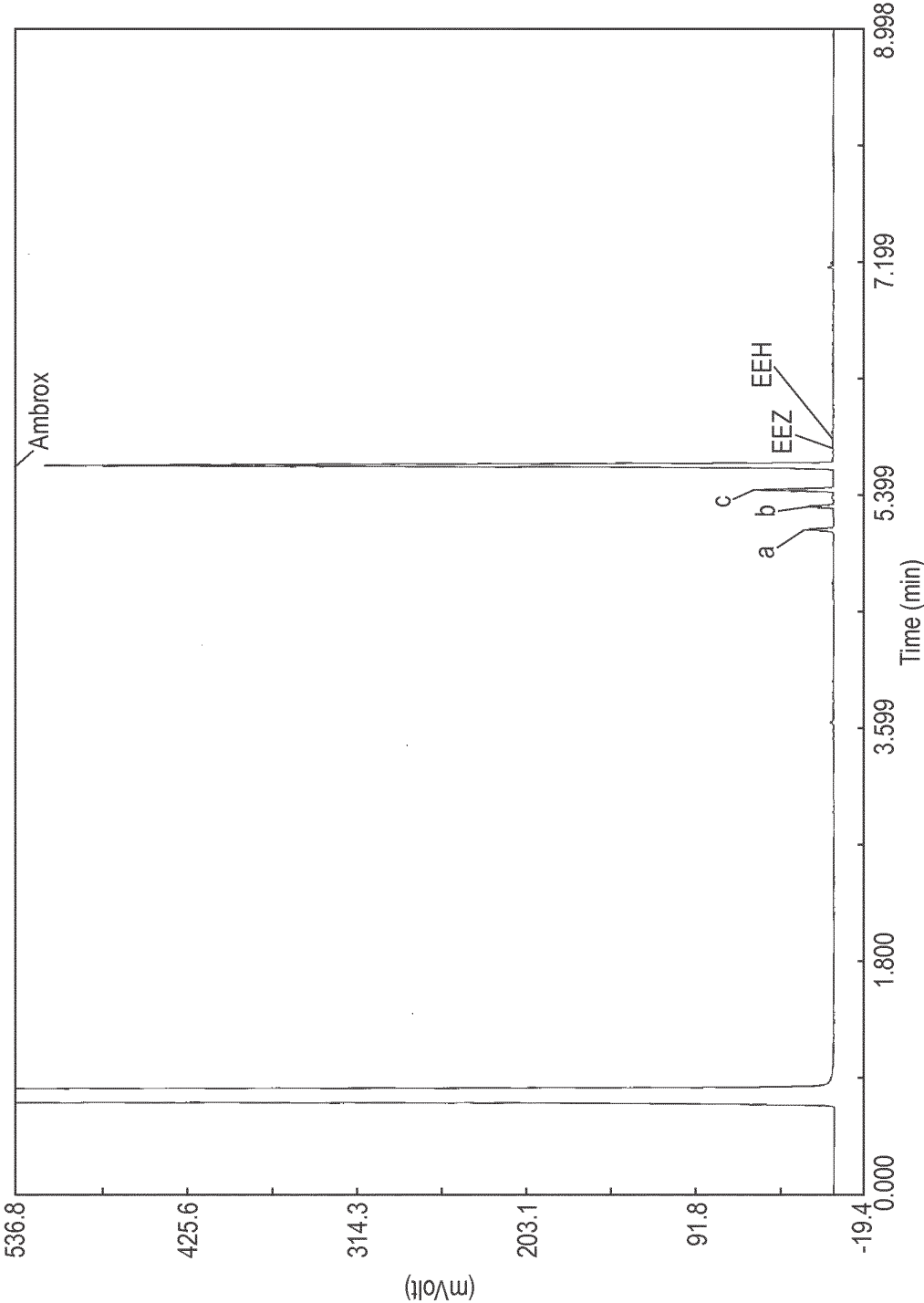


FIG. 13

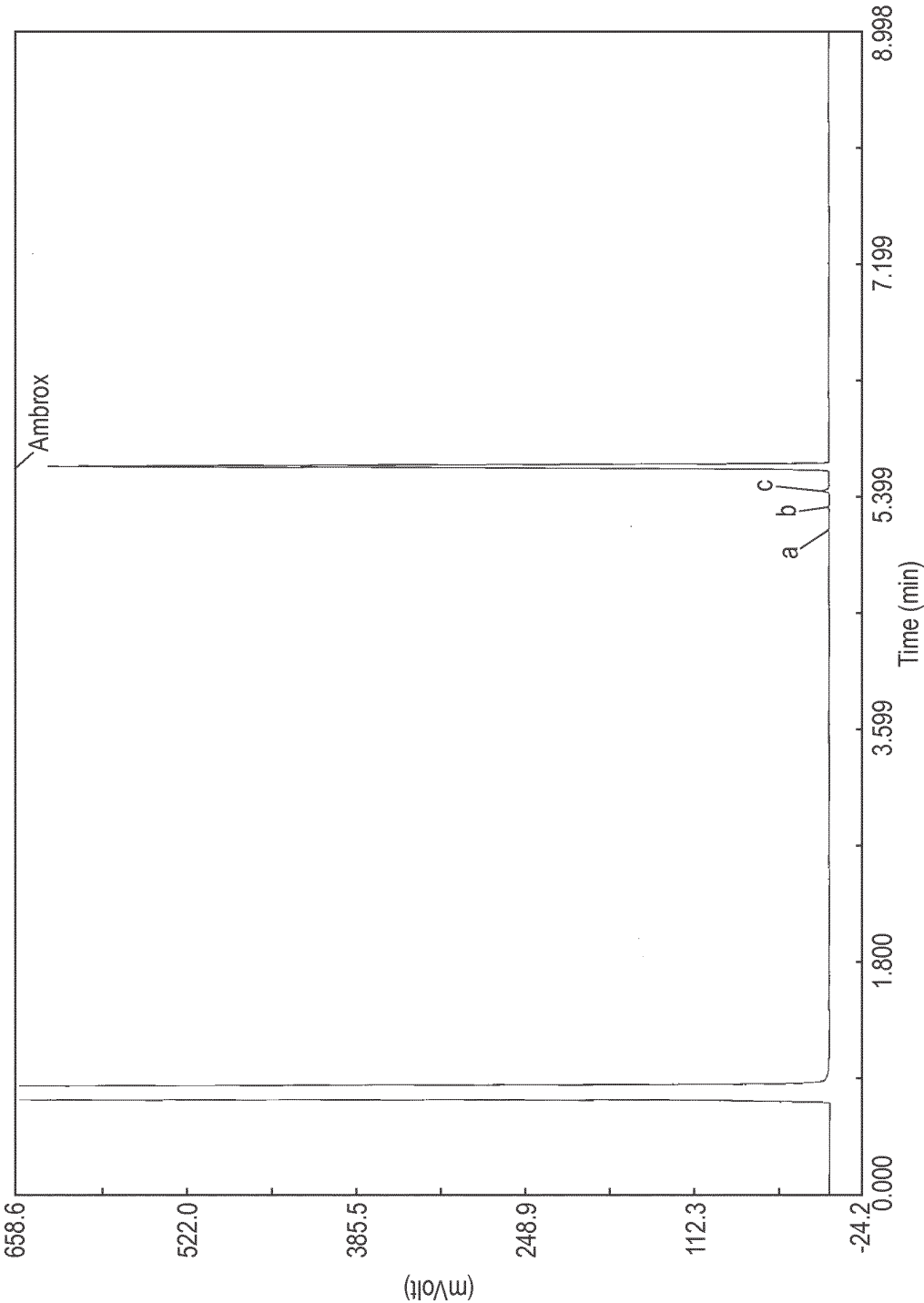


FIG. 14

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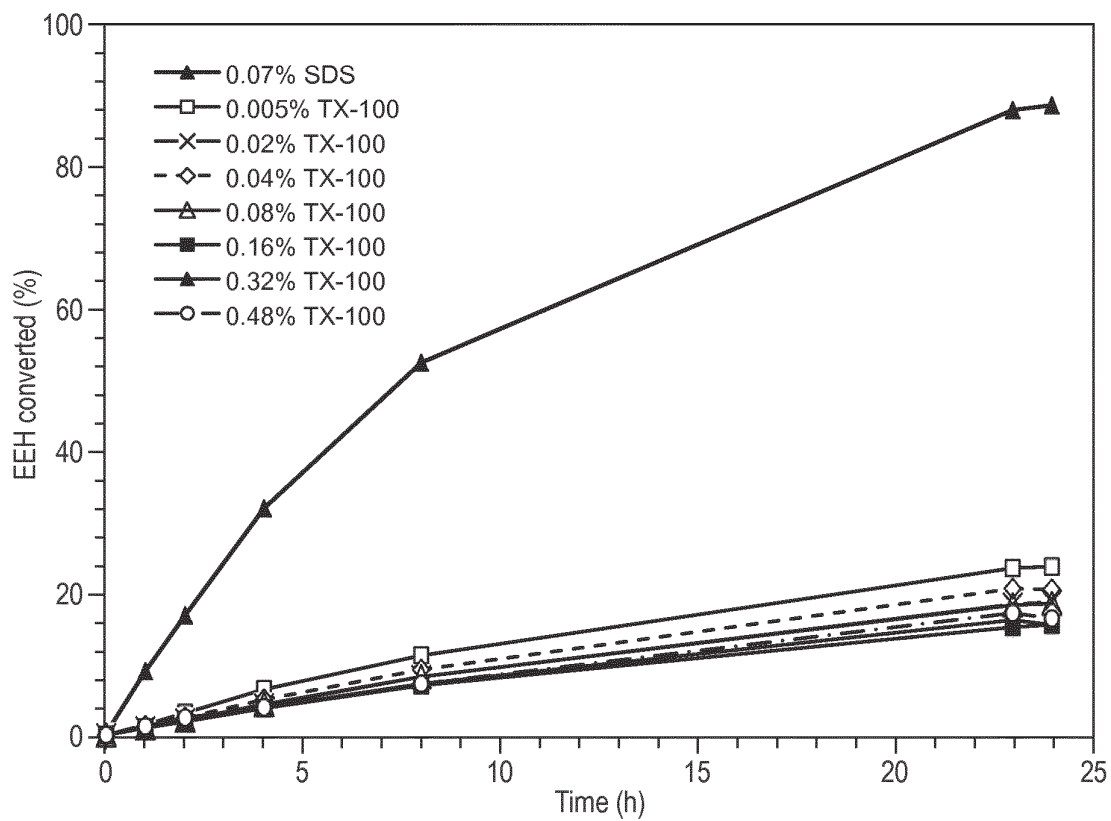


FIG. 15

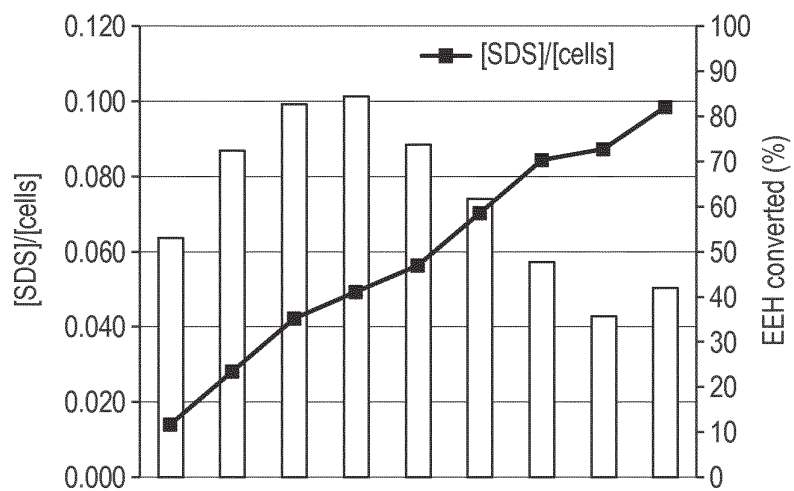


FIG. 16

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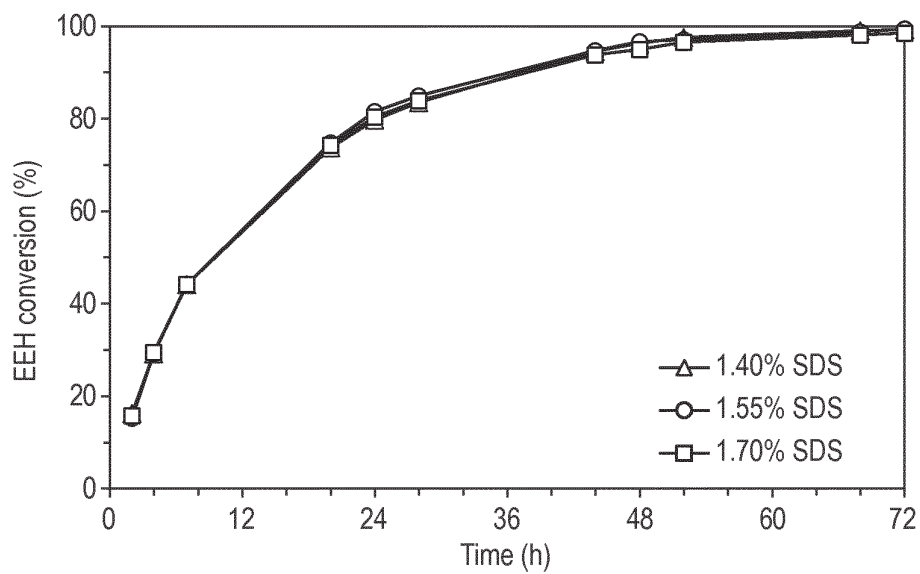


FIG. 17

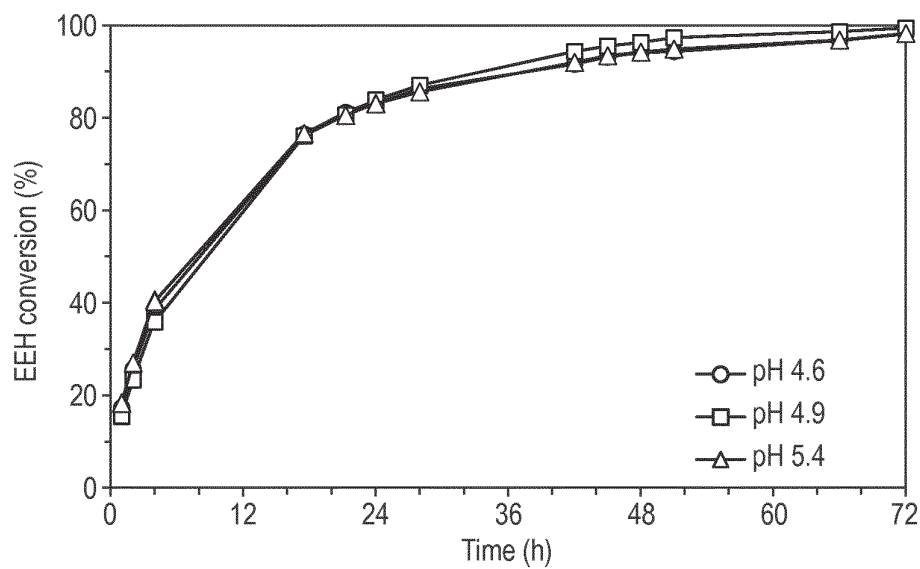


FIG. 18

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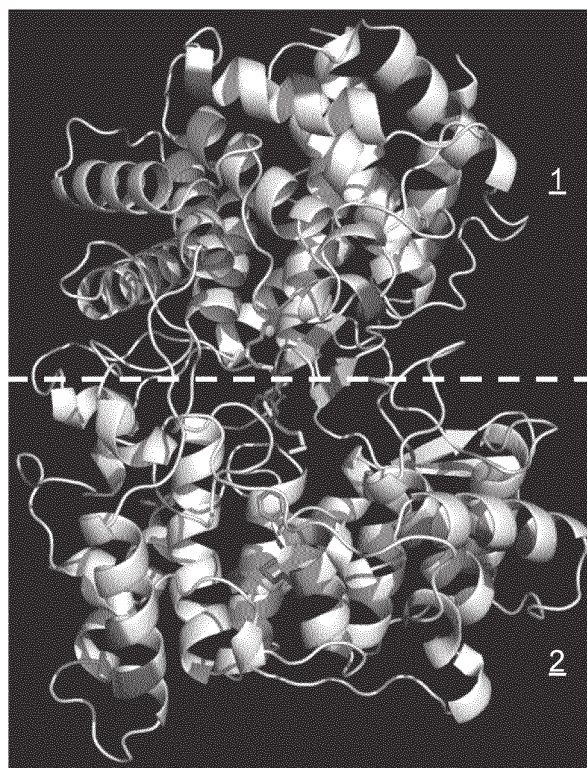


FIG. 19

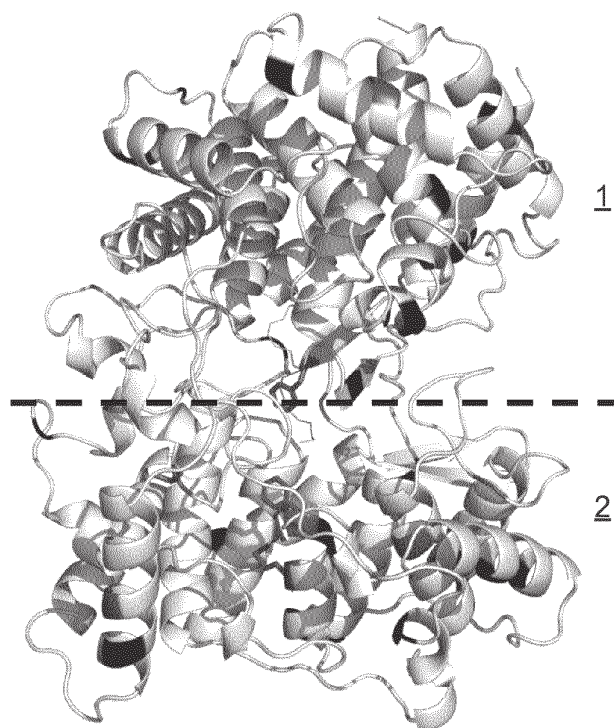


FIG. 20



Fig. 21

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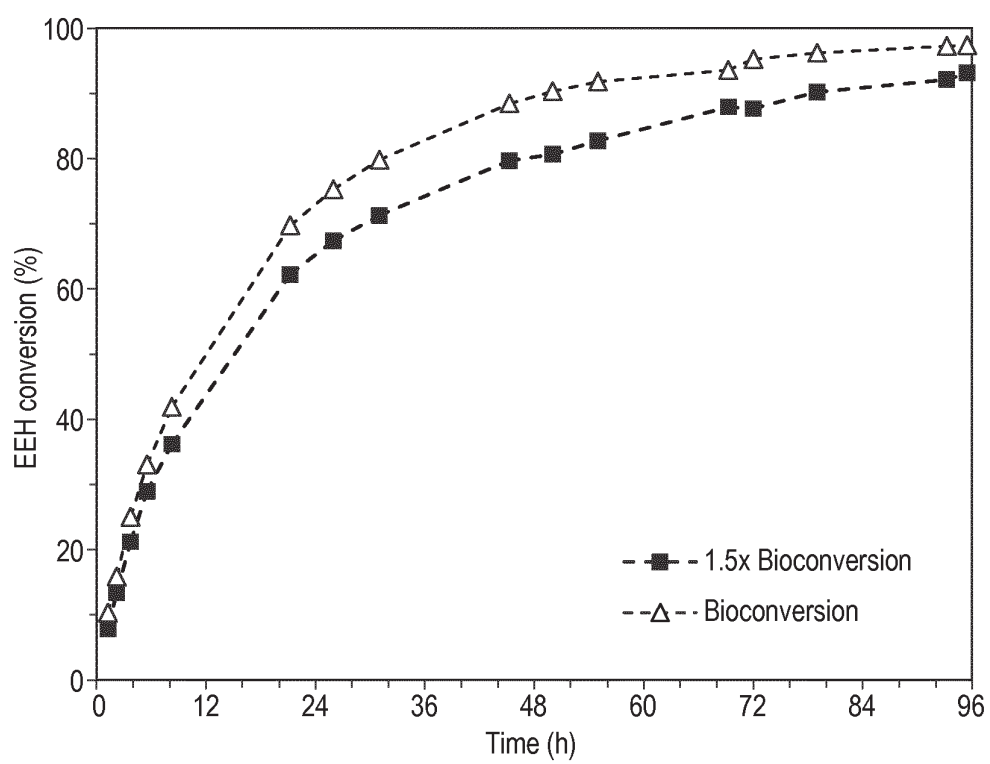


FIG. 22

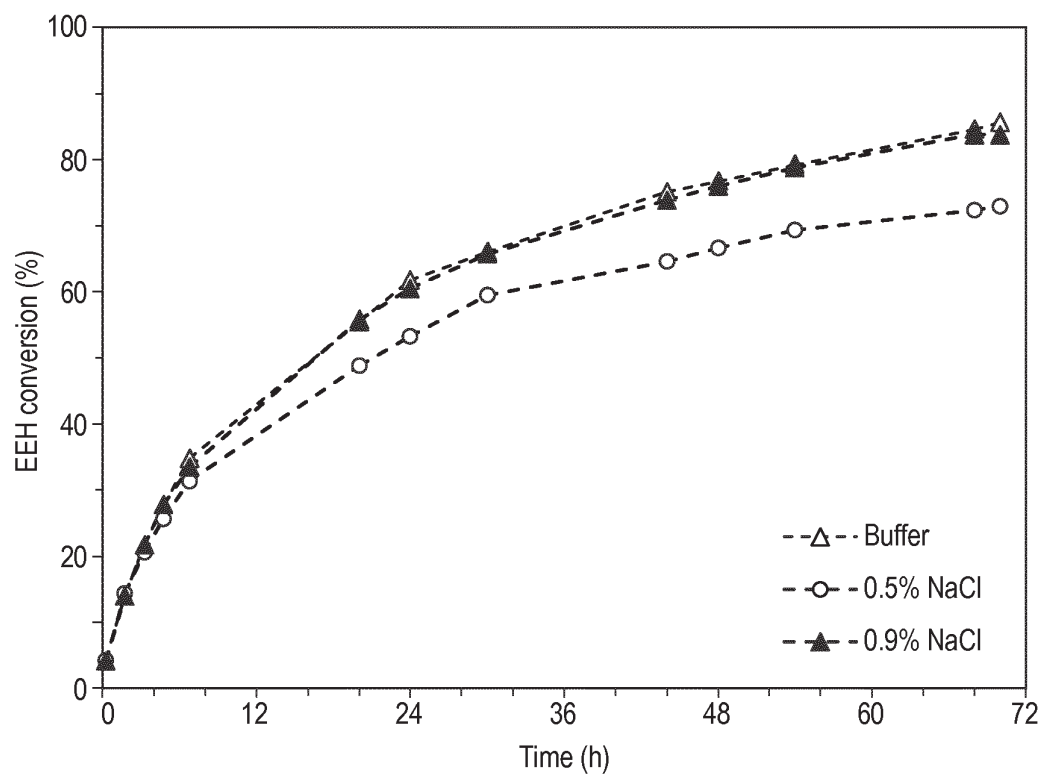


FIG. 23

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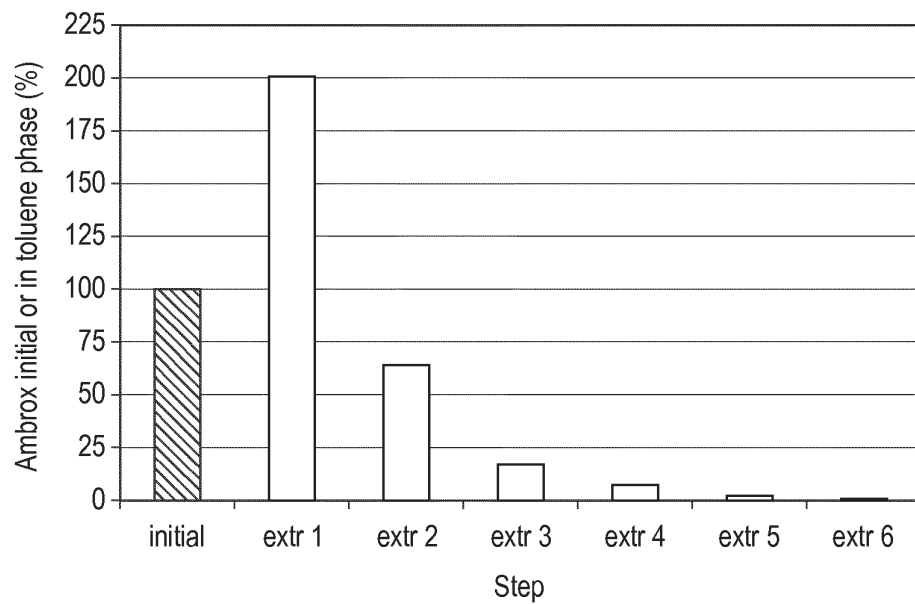


FIG. 24

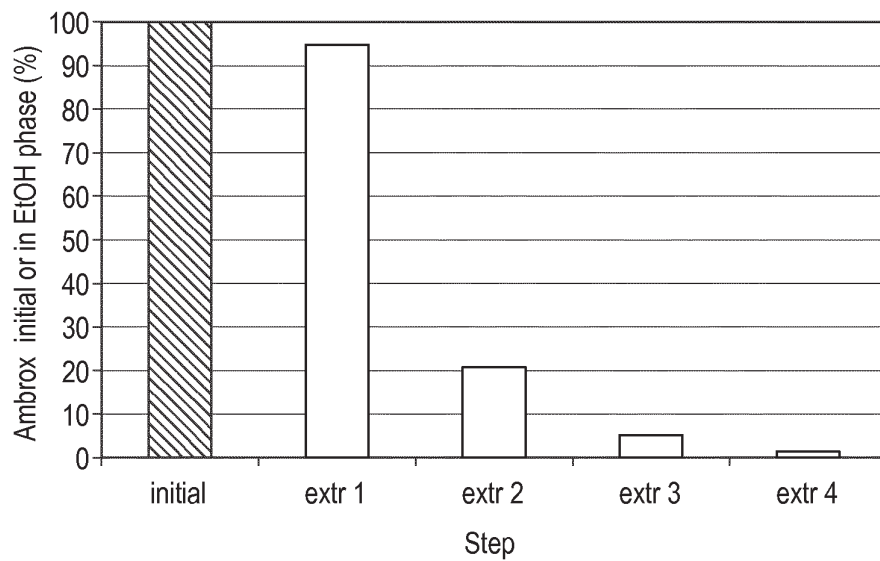


FIG. 25