Z a , B : A Z a d a - Z A A A

. a Z a,*, A . b a, a . b a, a Z Z b

a S B S , U N C , 501 20 S CB 92, G , CO 80639-0017, USA
b U S G S , M E S C , F C , CO 80525-3400, USA

A d 19 A b 2005; a d 6 a a 2006
A a a b 20 a A 2006

Abstract

Z a (B), a a - a d b a b d a , Z a A d

a 1950 a b a a a a a a a b a a a a a a a

a a a (> 1500). a B.

(a) a B. (a)

ba a .

2.3. P

a a a a a a

a (1976) a b a ., b

a a b a a a .

a a a a b a

a .

2.4. E

a a a a

(1991), a a a

342/ . a

4- a ( ) b a -

b (a), a ( ),

a (- a), (-α- - -

), a a (a a a -), a a

(b -),

((2(63 50 0-1.( )995.4 276245)-421.5(97)-220.44 b 6 251.54 b .

100 a a 5.0 a 2 (6.8). (250 μ) a a a a aa 2000 (10× 300)a a a 0.3 / a b (a), a a a a a .

2.9. MALDI-TOF

a 0.5 μ *B.* (a a a - a ; a - a) a 0.5 μ a a a a a b a a a a a - - - a (- -) a a - a a a - a a a a a a 5 15 a .

2.10. Tx

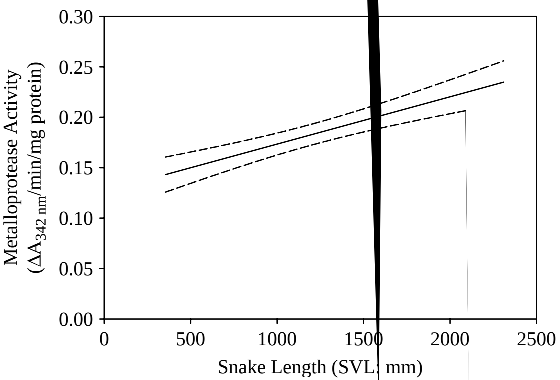
a a a a a (*H*) ba a a (, ,), a (*C*) a , a (*G*) ba a a b a a (*M*) b a a a a a , a a a a a a a -677.77 9(248.5(65(.-11.60)-095 266 70 ((a)-52-526.6(a -523.9(,)-7 13.1(a 23.90.5( )-6)-4

3.2. E

(Fig. 2) ... (Fig. 2; R^2 = 0.56) ... (p < 0.05) ... 2× ... (Fig. 3) ... 1/4 ... (*N.* ...) ... $_2$ ...

3.3. 1D

12 ... 6 ... ~7 200 ... (Fig. 4) ... 50 60 ... (8 10 ...)



(Fig. 4) ... *B.* ... *B.* ... 50 53 ... 17 20 ... *B.* ... 25 28 ... *B.* ... (Fig. 4) ... *B.*

3.4.

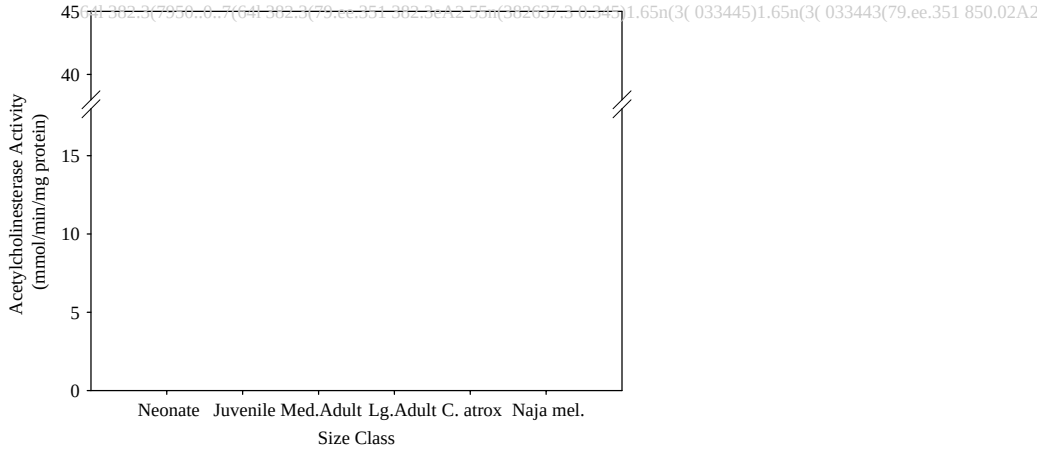
B. ... (Fig. 5) ... (... 2004) ... 25 ...

3.5. 2D

40 45 ... 2 ... (Fig. 6) ... 3.7) ... 56 ... 49 ... (8 14 ...) ... ~8 ...

3.6. MALDI-TOF

8 10 ... (Fig. 7) ... 0.3% ... 5 15 ... 23 ... 6 ... (Table 2) ... (16)


Acetylcholinesterase Activity
(mmol/min/mg protein)
45
40
15
10
5
0
Neonate
Juvenile
Med.Adult
Lg.Adult
C. atrox
Naja mel.
Size Class

[illegible]

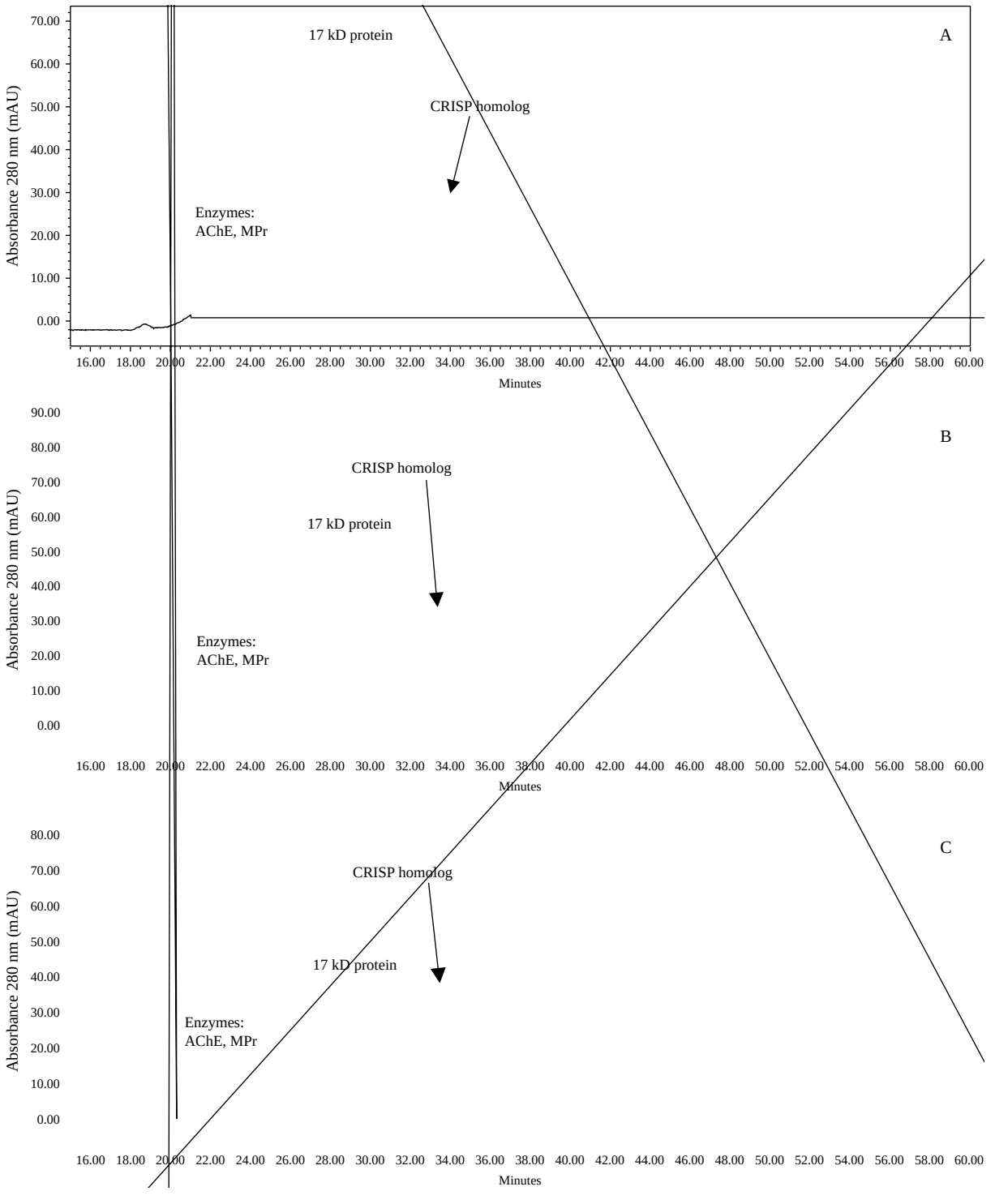
3.7. S[illegible] HPLC

[illegible]

[illegible]

3.8. L[illegible]

[illegible]


A
17 kD protein
CRISP homolog
Enzymes:
AChE, MPr
Absorbance 280 nm (mAU)
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
16.00 18.00 20.00 22.00 24.00 26.00 28.00 30.00 32.00 34.00 36.00 38.00 40.00 42.00 44.00 46.00 48.00 50.00 52.00 54.00 56.00 58.00 60.00
Minutes
B
CRISP homolog
17 kD protein
Enzymes:
AChE, MPr
Absorbance 280 nm (mAU)
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
16.00 18.00 20.00 22.00 24.00 26.00 28.00 30.00 32.00 34.00 36.00 38.00 40.00 42.00 44.00 46.00 48.00 50.00 52.00 54.00 56.00 58.00 60.00
Minutes
C
CRISP homolog
17 kD protein
Enzymes:
AChE, MPr
Absorbance 280 nm (mAU)
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
16.00 18.00 20.00 22.00 24.00 26.00 28.00 30.00 32.00 34.00 36.00 38.00 40.00 42.00 44.00 46.00 48.00 50.00 52.00 54.00 56.00 58.00 60.00
Minutes

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(') b a
a a a , . 38, 1663
1687.
, ., , . ., 1996 a a a
a a 2. 34, 1149 1155.
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a 2 ( ) a
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L a ' a (B
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L a a b ' a a a
a a . 43, 819 827.
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L 2004b. a a a a a
B (a a a) .
a a . 24, 107 113.
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L 2005. a a a a a a a
B (a a a). 45,
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C a C. . a 1988, 92 101.
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a a a
(C). . a . 2, 223 239.
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b , ., 2001. a a . .
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119 127.
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, ., a , . ., 1993. a
a b a B
(a a a : b). a 49, 297 300.