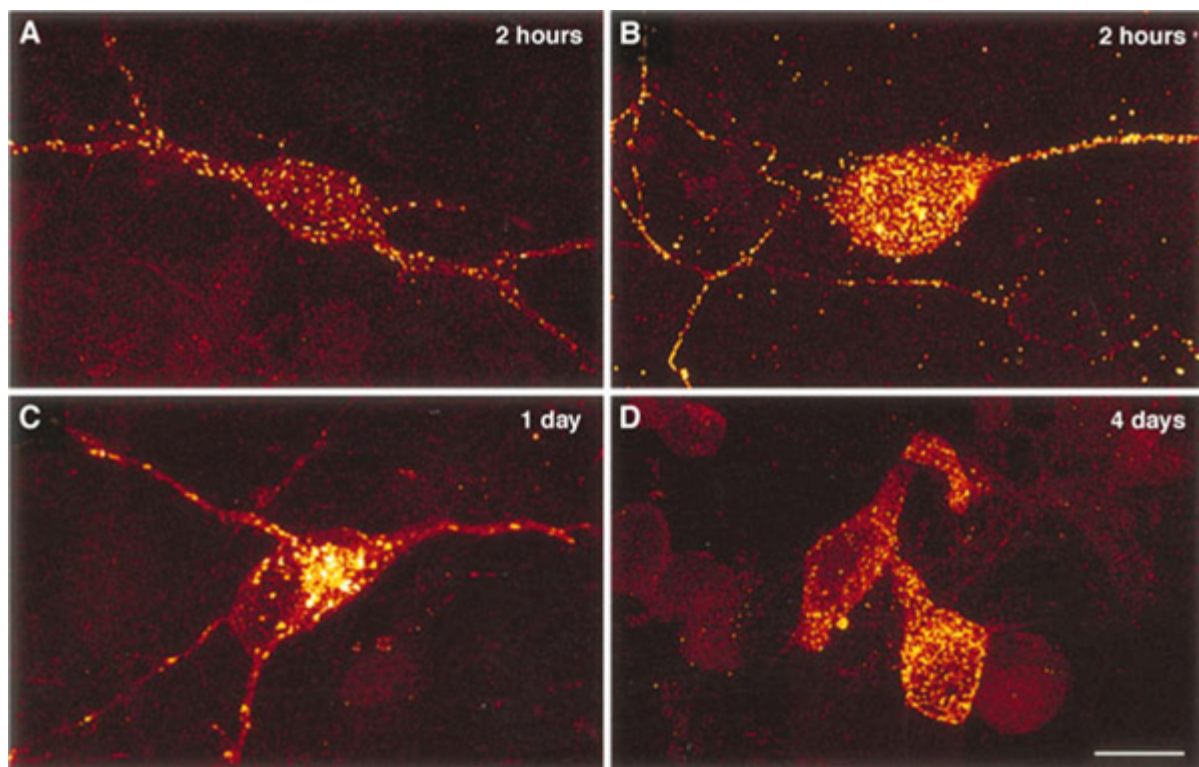


Time Course

 atsbio.com/docs/faq433

Q: How long does it take to see the cell death occurring from the use of targeted toxins using saporin? Is there a time course of hours or days?

A: The figure below illustrates the time course of cell death very effectively. Internalization and cytotoxicity of SP-SAP in primary cultures of neonatal spinal cord neurons. Confocal image of neurons where the Substance P receptor; NK1R (SPR) immunofluorescence (A, C, D) appears red, areas of concentrated SPR immunofluorescence appear yellow. (A, C, and D) SPR immunofluorescence in neurons 2 hours, 1 day, and 4 days, respectively, after treatment with SP-SAP. (B) Confocal image showing SAP immunofluorescence (yellow) 2 hours after SP-SAP treatment.



Mantyh P.W., Rogers SD, Honore P, Allen BJ, Ghilardi JR, Li J, Daughters RS, Lappi DA, Wiley RG, Simore DA (1997) *Science* 278:275-279, Figure 1

These images were projected from 14 optical sections acquired at 0.8-mm intervals with a 603 lens. Bar, 25 mm. It is recommended that you wait for two weeks to allow for all debris to be cleared and the animal to regain normal eating and sleeping habits.

References

1. Mantyh PW et al. Inhibition of hyperalgesia by ablation of lamina I spinal neurons expressing the substance P receptor. *Science* 278:275-279, 1997.