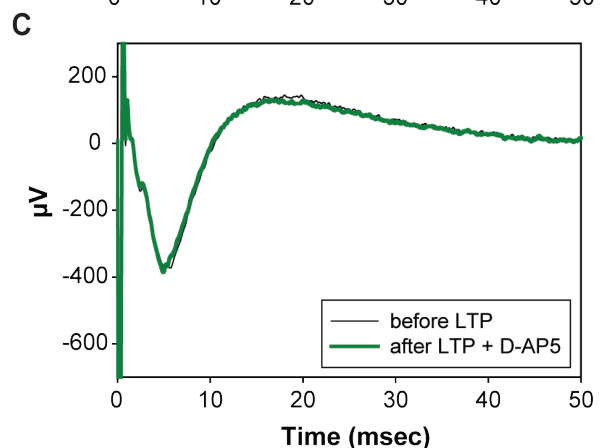
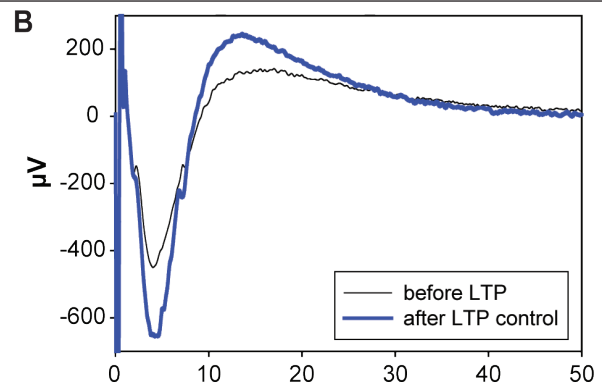
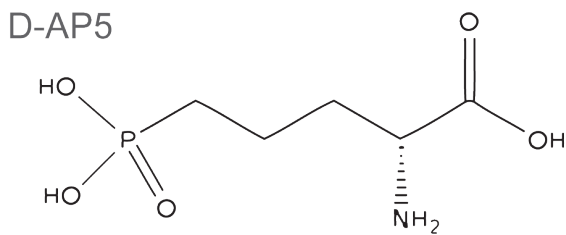
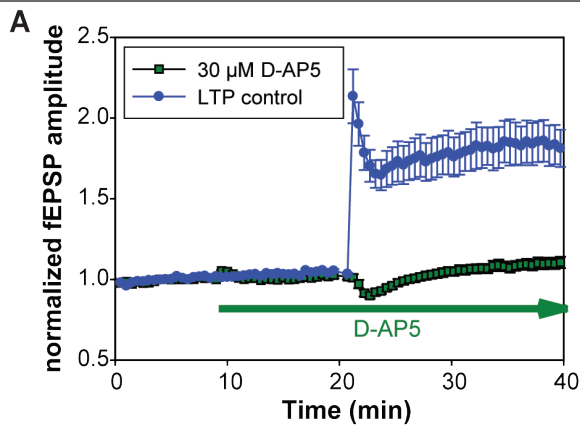


P-003 • **NMDA RECEPTORS COMPETITIVE ANTAGONIST** • **DAP-5** • **NMDA RECEPTORS**



BIOLOGY

Following high frequency stimulation (2 stimulations at 100 Hz during 1 sec, at 20 sec intervals) of Schaeffer collaterals in the CA3 region, fEPSP amplitude recorded in CA1 is markedly increased. This phenomenon described as "Long-Term Potentiation" (LTP, see A and B) depends on NMDA receptors activation. D-AP5, a competitive NMDA receptor antagonist, completely abolishes LTP induction (see A and C).

PATHOLOGIES ASSOCIATED WITH NMDA RECEPTORS

Neurodegenerative Diseases (Alzheimer's, Parkinson's and Huntington's Diseases)
Schizophrenia

BIBLIOGRAPHY

- Duncan, GE et al. (1999) Brain Res. Brain Res. Rev., 29, 250-264.
Malenka, RC & Nicoll, RA (1999), Science, 285, 1870-1874.
Samanta, MK et al. (2006), Am. J. Ther., 13, 516-526.
Bonuccelli, U & Del Dotto, P (2006), Neurology, 67(7 Suppl 2), S30-S38.

Last update: March, 6, 2009

e l e c t r o p h y s i o l o g i c a l t e s t i n g f o r t h e C N S