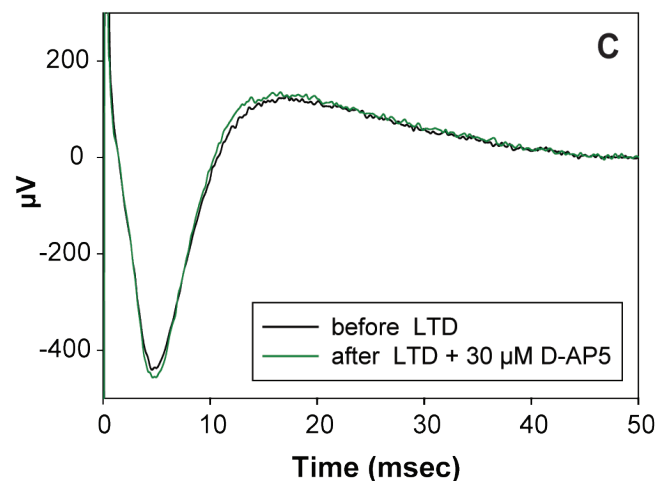
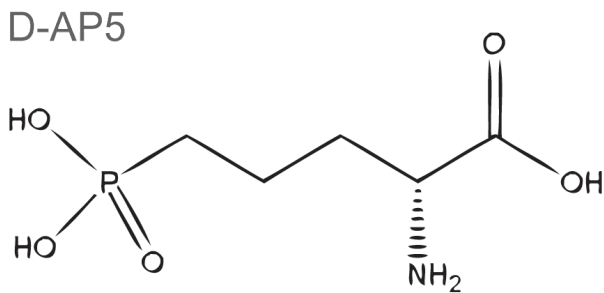
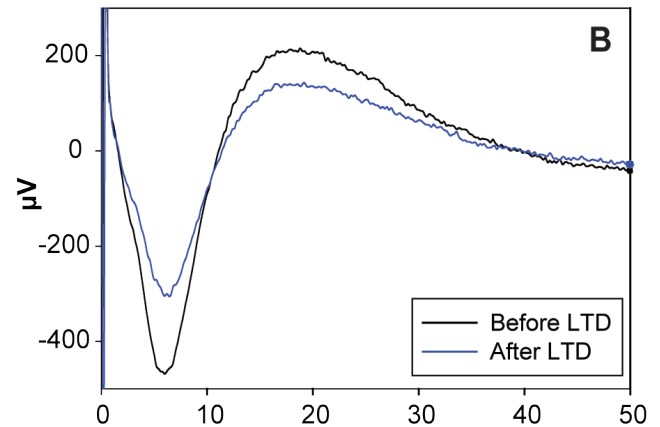
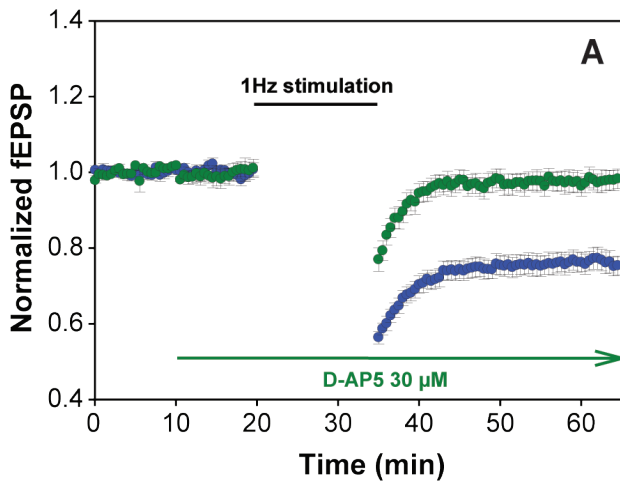


SST-004 ● **LONG-TERM DEPRESSION IN CA1 REGION** ● **D-AP5** ● **NMDA RECEPTORS**



BIOLOGY

Glutamatergic transmission is recorded in the CA1 region of the adult rat hippocampus while stimulating afferent fibers (Schaeffer collaterals) in the CA3 region. Low-Frequency Stimulation (1Hz for 15 min) triggers durable reduction of evoked-responses (see A and B) corresponding to a reduction in synaptic efficacy. This mechanism depends on NMDA receptors activation since a competitive NMDA antagonist (D-AP5) completely abolishes LTD induction (see A and C). LTD is involved in the storage of spatial information.

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