Phosphodiesterase 4 inhibition enhances the dopamine D1 receptor/PKA/DARPP-32 signaling cascade in frontal cortex.

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(Online Resource 1) Expression of PDE4 subtypes in the cortex. Double immunostaining of mouse cortical tissues with DARPP-32 and PDE4A (A), PDE4C (B), or PDE4D (C and D) antibodies. High magnification pictures of cingulate cortex, area 1 for PDE4A (A, inset) and PDE4D (D) staining are shown. Scale bars, 50 µm for A, B and C, and 10 µm for A inset and D