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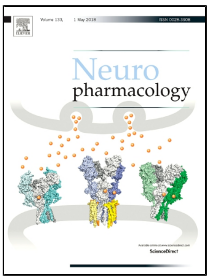

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Abbreviations: SHP1, Src-homology 2 domain-containing protein tyrosine phosphatase-1; NMDA, N-methyl-D-aspartate; NMDARs, NMDA subtype of glutamate receptors; SFKs, Src-family protein tyrosine kinases; PTPs, protein tyrosine phosphatases; PSD, postsynaptic density; STEP, Striatal-enriched protein phosphatase; SH2, Src-homology 2; SHP2, Src-homology 2 domain-containing protein tyrosine phosphatase-2; FBS, fetal bovine serum; siRNA, small interfering RNA; TCN-201, 3-Chloro-4-fluoro-N-[(4-[2-(phenylcarbonyl) hydrazino] carbonyl-phenyl) methyl] benzenesulphonamide; PP2, 4-amino-5-(4-chlorophenyl)-7-(t-butyl)