Flow diagrams of experimental schedule for behavioral assays and biochemical assays (A) and in vivo microdialysis assay (B). A, schedule for behavioral assays (1, open field test; 2, light/dark box test; 3, home cage locomotor activity; 4, Y-maze test; 5, passive avoidance test; 6, three chamber test) and biochemical assays (7, HPLC and RT-PCR). n = 10 – 11. B, schedule for in vivo microdialysis assay (8, in vivo microdialysis). n = 6
The concentrations of monoamines and their metabolites in the homogenates of cortex (A) and midbrain (B) of male mice fed with Con diet or LHD for 4wk. Values are mean concentrations of monoamines or their metabolites ± SEMs, $n = 10-11$. NE, norepinephrine; DA, dopamine; DOPAC, 3,4-dihydroxyphenylacetic acid; HVA, homovanillic acid; 5HT, 5-hydroxytryptamine; HIAA, 5-hydroxyindoleacetic acid
Behaviors of male mice fed with Con diet or LHD for 3wk in the passive avoidance tests (A), Y-maze tests (B), and three-chamber tests (C). Values are means of time entering the dark room ± SEMs (A), continuous alteration ratio ± SEMs (B), and time spent in the chamber with an empty wire cylindrical cup (empty) or with a caged unfamiliar mouse (stranger) ± SEMs (C), n = 10-11.