

Supplementary Table S1. ELISA kits used for serum biomarkers.

LAPUDA® ELISA kits (Nanjing Lapuda Biotechnology Co., Ltd., Nanjing, China).^{1,2}

Marker	Catalog No.	Format	Lot/Batch
TLR4	LA137727H	96T	327-202411
NF-κB	LA137716H	96T	316-202411
LPS	LA182223H	96T	823-202411
TNF-α	LA137701H	96T	301-202411
IL-1β	LA137704H	96T	304-202411
IL-6	LA137702H	96T	302-202411
CRP	LA137734H	96T	334-202411
BDNF	LA137718H	96T	318-202411
pro-BDNF	LA137111H	96T	311-202411
TrkB	LA137110H	96T	310-202411
NOD2	LA137112H	96T	312-202411
Dopamine (DA)	LA182212H	96T	812-202411
Tryptophan (Trp)	LA182231H	96T	831-202411

¹All samples were analyzed in a single run to minimize inter-assay variation.

²Instruments used: Optical density at 450 nm was measured on a BioTek ELx800 microplate reader with plate washing performed on a BioTek ELx50 microplate washer (BioTek Instruments, Winooski, VT, USA). Sample preparation and storage used the following instruments: refrigerated microcentrifuge DLAB D3024R (DLAB Scientific), water-jacketed incubator GHP-9050N (Shanghai Yiheng Scientific Instruments Co., Ltd.), ultra-low temperature freezer MD-86L708 (Midea), and microplate incubator shaker WZ80-2 (Hangzhou Yuning Instruments).