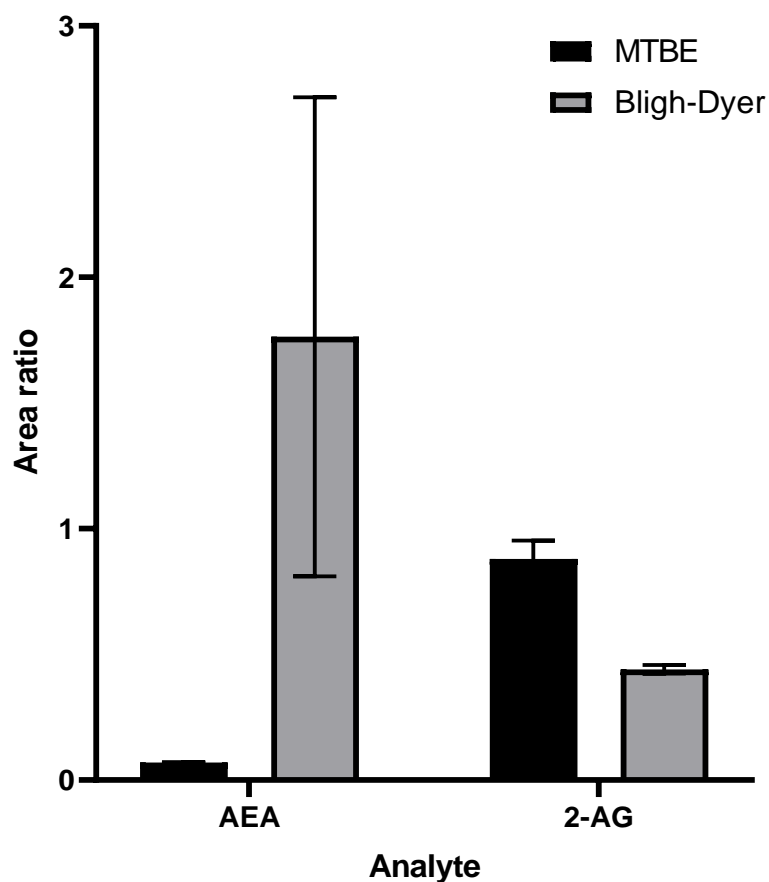


Supplementary material



E-Figure 1: The area ratio of anandamide (AEA) and 2-arachidonyl glycerol (2-AG) from the Bligh-Dyer extraction and methyl tert-butyl ether (MTBE) extraction of pooled human CSF.

Pooled human CSF samples were extracted with methyl tert-butyl ether (MTBE, $n = 3$) or with the Bligh-Dyer extractant (chloroform/methanol/water 2:2:1.8, $n = 3$). AEA level was much higher from the Bligh-Dyer extraction compared with MTBE extraction. While the 2-AG level from Bligh-Dyer extraction was lower compared with MTBE extraction. Since the Bligh-Dyer extraction system contains more aqueous phase, the recovery of apolar lipids such as 2-AG and AEA should be lower compared with pure MTBE extraction. Meanwhile, AEA was not detected in blank Bligh-Dyer extractant or MTBE. Thus, the abnormally high level of AEA from Bligh-Dyer extraction was suspected to be generated during the extraction procedure. The underlying mechanism of the possible reaction should be further investigated.