Supplemental Figures

Supplemental Figure 1. Constituent biomarkers of the MBDA score exhibit dose-dependent decreases at week 12. Biomarkers displaying significant, dose-dependent decreases (FDR<0.05) include CRP (A), IL-6 (B), MMP-3 (C), SAA (D) and YKL-40 (E). All biomarkers were quantified using a multiplex immunoassay system (Meso Scale Discovery MULTI-ARRAY Platform). Values are expressed as the mean change in log_{10}-transformed concentration between baseline and Week 12 by dose group. Statistically significant differences for individual dose groups relative to placebo were determined using the Wilcoxon rank-sum test.
(C) Change in MMP-3 (log_{10} concentration)

Bars indicate standard error of the mean
*P<0.05, mavrilmumab vs placebo

(D) Change in SAA (log_{10} concentration)

Bars indicate standard error of the mean
*P<0.05, mavrilmumab vs placebo
(E) Change in YKL-40 (log_{10} concentration)

Bars indicate standard error of the mean
*P<0.05, mavrilimumab vs placebo
Supplemental Figure 2. CRP: Adjusted geometric mean ratio (mavrilimumab/placebo) with upper/lower 95% CI

Bars indicate upper/lower 95% CI
*P<0.05; **P<0.001, mavrilimumab vs placebo
Supplemental Figure 3. ESR: Adjusted geometric mean ratio (mavrilimumab/placebo) with upper/lower 95% CI

Bars indicate upper/lower 95% CI

*P<0.05, mavrilimumab vs placebo
Supplemental Figure 4. Swollen joint count: Adjusted mean change from baseline in swollen joint counts ±SEM

Bars indicate standard error of the mean
*P<0.05, mavrilimumab vs placebo
Supplemental Figure 5. Tender joint count: Adjusted mean change from baseline in swollen joint counts ±SEM

Bars indicate standard error of the mean

*P<0.05, mavrilimumab vs placebo
Supplemental Figure 6. Lung injury biomarkers: Box plots by time (A) Surfactant protein D; (B) KL-6

(A) Surfactant protein D

(B) KL-6

○ = outlier
Week 0 = baseline visit
Investigators

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