Figure 1

A

Molecule: LAP-mmp-IFN-β + + + - - - + + + - - -
LAP-agg-IFN-β - - - + + + - - - + + +

Protease: ADAMTS4 - + - - + - - + - + -
ADAMTS5 - - + - - + - - + - + -

Antibody: Anti-LAP + + + + + - - - - - -
Anti-IFN-β - - - - - - + + + + + +

M.W. 1 2 3 4 5 6 7 8 9 10 11 12

B

IFN-β Activity (U/mL)

C

IFN-β Activity (U/mL)

Figure 1
Clinical score

OD at 450 nm

Time from onset of disease (days)

Figure 2A-E
**Figure 2F-G**

Graph F shows the expression levels of IFN-γ, IL-1β, IL-2, IL-12, and TNF-α. The y-axis represents the percentage of positive control, and the x-axis represents different conditions: Control, LAP-mmp-IFN-β, LAP-agg-IFN-β, and LAP-IFN-β NoSite.

Graph G displays the expression levels of IL-4, IL-5, and IL-10. The y-axis represents the percentage of positive control, and the x-axis represents the same conditions as in Graph F.

* indicates significant differences compared to the control.
**Figure 2H-L**
Figure 3
Figure 4

Photons /s/cm^2/sr

Non-inflamed + saline
Non-inflamed + Free IFN-β
Non-inflamed + LAP-agg-IFN-β
Inflamed + saline

Color Scale
Min = 600
Max = 51907
Figure 5
Figure 6