

The invention relates to a reconstructed viral membrane with the lipid bilayer containing the fusion viral protein, amphiphilic adjuvant and optionally additional antigen. The lipid composition of the lipid bilayer is compatible with the fusion of viral and cell membranes induced by the fusion viral protein. The fusion viral protein and the amphiphilic adjuvant interact with the hydrophobic internal moiety of the lipid bilayer. Additionally, the fusion viral protein, the amphiphilic adjuvant, and the optional additional antigen are not bound covalently. The invention relates also to a method for reconstructing the viral membrane and the pharmaceutical composition containing such reconstructed viral membrane.