



Provide a 1-paragraph summary of your drawing and how this molecule differs from soluble pentameric IgM (figure legend).

IgM is the first immunoglobulin class produced in a primary response to an antigen. IgM can come in two different forms: Monomeric IgM and Pentameric IgM. The picture drawn above outlines a monomeric IgM. Typically, a pentameric IgM is soluble, but the drawing presented is a monomeric that is not soluble. A typical pentamer does not consist of Igα/Igβ, but in this case the monomer does. The drawing shows the Igα & Igβ inside the membrane spanning domains. Another thing that differs from the monomer is that it consists of H-bonds. There are several hydrophobic residues from TM_α that stack closely against the corresponding residues from TM_β. These H-bonds may help maintain the register between TM_α and TM_β.