Polypeptide (protein)

Color key:
black = carbon
white = hydrogen
red = oxygen
blue = nitrogen
yellow = assorted functional groups

Monomer for the condensation polymerization:

Hydrogen bonds (orange arrows) can form between oxygen atoms on one polymer strand and hydrogen atoms attached to nitrogen atoms on an adjacent polymer strand.

NOTE: Hydrogens connected to the nitrogens on the bottom reversed strand have been moved to the front for ease of viewing.

This model requires:
35 white 1x1 bricks
22 red 2x2 bricks
23 blue 2x2 bricks
46 black 2x2 bricks
25 yellow 2x2 bricks