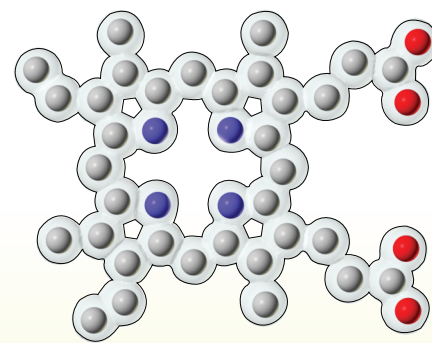


β-Globin Folding Kit®

Description, Set-Up & Contents



Description & Set-Up

The β-Globin Folding Kit® is designed for three small groups of students. Each group will use one mini toober (blue, green or red) a parts bag and folding map that are color-coded to match each other. They will also use an Amino Acid Side Chain Chart® and wooden dowel. The fourth bag, colored yellow, will be used after the groups put their segments together and add the heme group.

Find folding and assembly instructions, teacher notes, student handouts, illustrations and Jmol tutorials at 3dmoleculardesigns.com/Teacher-Resources/B-Globin-Folding-Kit.htm.

Set-Up

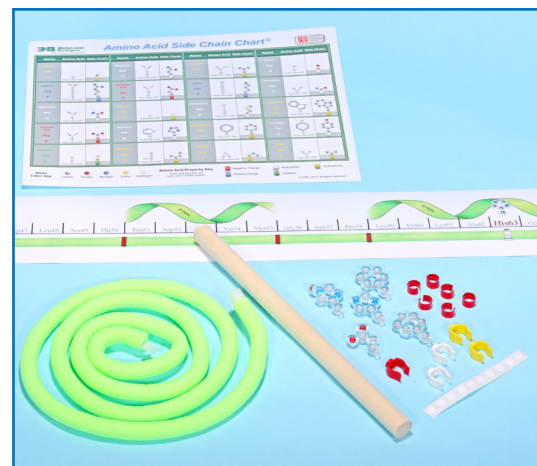
Open your β-Globin Folding Kit® and divide the contents into three groups, keeping like colors together:

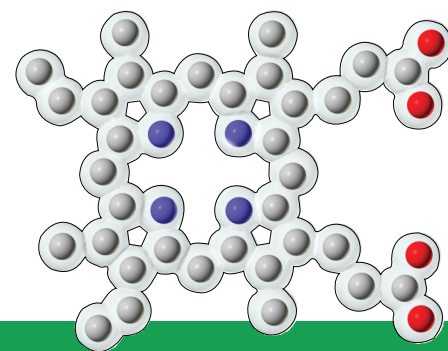
- Blue mini toober + blue folding map + blue parts bag + wooden dowel + laminated Amino Acid Side Chain Chart®
- Green mini toober + green folding map + green parts bag + wooden dowel + laminated Amino Acid Side Chain Chart®
- Red mini toober + red folding map + red parts bag + wooden dowel + laminated Amino Acid Side Chain Chart®

Set aside the yellow parts bag containing the heme group and other pieces. It will be used at the end of the activity when your students connect the three segments together to form the β-globin protein model.

Divide your students into three groups. Each group will fold one of the three segments (blue, green or red), then come together to assemble the β-globin protein model.

Please note: folding and assembly time varies. Plan for between 45 and 90 minutes.





β-Globin Folding Kit®

Storing your Kit Pieces

When you have completed building and studying your β-globin protein and are ready to put the kit away, carefully disassemble the model. Remove all parts from the mini toobers — including the endcaps — and return them to the blue, green, red and yellow bags. Recoil the mini toobers for safe storage.

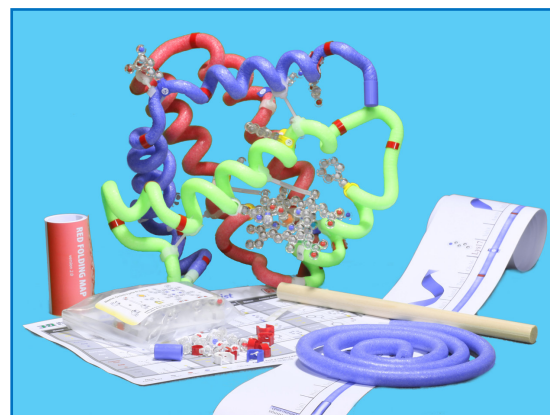
β-Globin Folding Kit® Contents

- 3 Mini Toothers (red, green and blue)
- 3 Folding Maps (red, green and blue)
- 4 Parts Bags (blue, green, red and yellow)
 - Side Chains
 - Heme Group and Connectors
 - Plastic Clips
 - Bands
 - Support Posts (combine posts and clips)
 - White Dots
- 3 Amino Acid Side Chain Charts®
- 3 Wooden Dowels

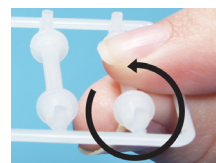
Optional Additional Items: 3D Molecular Designs Water Kit® water molecules (or other water molecule models, such as Molymod®)

Replacement Parts Available

Please contact us at 414-774-6562 or contactus@3dmoleculardesigns.com.



Assembling Support Posts



Twist center post from frame



Insert center post into clip

⚠ WARNING:

CHOKING HAZARD -- This product contains small parts and should be kept out of the reach of children under the age of 3, because the parts or their pieces may present a choking hazard to small children.

CAUTION:

This is a science education product, not a toy. It is not intended for children under 8 years old.