

## Testing iCn3D with symmD...

<https://www.ncbi.nlm.nih.gov/Structure/icn3d2/full.html?mmdbid=1kq2>

Tried 1kq2 good, C6

1adb - alcohol dehydrogenase, C2 symmetry OK!

1b4u - C2 looks good!

2wnv - C3, looks good

7nn9 - neuraminidase C4, symmD says no symmetry! Oh! Actually there is a tetramer of beta-propellers and so there is internal symmetry! Maybe symmD gets confused by the combination of internal and global symmetry?

Tried 2xqt returns no symmetry, (should be C15); too big?

4hhb works, I think (but I thought it had more than one symmetry axis); yes, it's D2

But the notion of pseudo-symmetry occurs here; i.e. alpha chains differ from the beta chains, although structurally very similar (see also 1a6d, which has two highly similar alpha and beta chains)

3o8o - symmD says no symmetry, should be D2; but RCSB says C2

1a6d ferritin, symmD reports structure has no symmetry; it's a 24-mer so pretty big; RCSB says D8

1L0Q - a 7-fold beta propeller plus a PKD domain - I selected the first 302 residues that correspond to the beta-propeller and symmD looks like it drew an axis and indicated C7 symmetry, but it didn't draw the axis and 'outline' correctly

<https://structure.ncbi.nlm.nih.gov/icn3d/share.html?pBsQh6EtBoTsZQjZ9>

5m23 another beta-propeller C7 symmetry looks good

2om1 human insulin should be D3 dihedral, graphic looks like C3; RCSB looks good

<https://structure.ncbi.nlm.nih.gov/icn3d/share.html?eNzUaZG7DoiX9vkU7>

1hmo hemerythrin octomeric should be D4 symmD reports no symmetry

2jd8 - symmD reports no symmetry, should be octahedral, maybe too big?

3lmx - symmD reports no symmetry, should be cubic; but the RCSB report looks complicated and weird...