

Co-solute	Effect on disordered proteins	Effect on denatured globular proteins	Effect on other systems
<i>Dextrans</i>	<ol style="list-style-type: none"> 1. No effects on p27^{KIP1} or c-FOS³. 2. Folding of TCAM RNase⁴. 	<ol style="list-style-type: none"> 1. Increased refolding (k_f) of lysosyme¹. 2. Change to molten globular state of cyt C². 	<ol style="list-style-type: none"> 1. Decreased unfolding (k_u) of GAPDH⁵.
<i>Ficolls</i>	<ol style="list-style-type: none"> 1. No effects on p27^{KIP1} or c-FOS³. 2. No effects on TCAM RNase stability (K_{D-N})⁴. 	<ol style="list-style-type: none"> 1. Minor effect on FKB12 stability⁶. 2. Minor effect on refolding (k_f) of lysosymes⁷. 	
<i>EG/PEGs</i>	<ol style="list-style-type: none"> 1. Accelerated fibrillation of α-synuclein¹⁰. 	<ol style="list-style-type: none"> 1. Collapse of the coil state (decreased k_f) of CI2 at high PEG⁸. 2. Increased folding rate (k_f) of CI2 at low PEG⁸. 3. Decreased folding rate (k_f) of CspB (EG)⁹. 	<ol style="list-style-type: none"> 1. Decreased unfolding (k_u) of GAPDH⁵.
<i>Glycerol</i>	<ol style="list-style-type: none"> 1. Accelerated fibrillation of α-synuclein¹⁰. 	<ol style="list-style-type: none"> 1. Stabilised native state of RNaseA¹¹. 2. Increased refolding (k_f) of GS with GroEL¹². 3. Increased refolding (k_f) of MHD¹³. 	
<i>Glucose</i>	<ol style="list-style-type: none"> 2. Induced collapse of α-synuclein¹⁴. 	<ol style="list-style-type: none"> 1. Folding of Fe cyt C¹⁴. 	<ol style="list-style-type: none"> 1. Stabilised dimeric chymotrypsin¹⁵.
<i>Sucrose</i>	<ol style="list-style-type: none"> 1. Contracted RCAM RNase¹⁷. 	<ol style="list-style-type: none"> 1. Increased refolding (k_f) of GS¹². 2. Increased refolding (k_f) of CI2¹⁶. 3. Increased refolding (k_f) of MHD¹³. 	<ol style="list-style-type: none"> 2. Stabilised dimeric chymotrypsin¹⁵.

1. Zhou BR, Liang Y, Du F, Zhou Z, & Chen J. (2004) *J Biol Chem* **279**, 55109–16.
2. Sasahara K, McPhie P, & Minton, AP. (2003) *J Mol Biol* **326**, 1227–37.
3. Flaugh SL, & Lumb KJ. (2001) *Biomacromolecules* **2**, 538–40.
4. Qu Y, & Bolen DW. (2002) *Biophys Chem* **101–102**, 155–65.
5. Ren G, Lin Z, Tsou CL, & Wang CC. (2003) *J Protein Chem* **22**, 431–9.
6. Spencer DS, Xu K, Logan TM, & Zhou HX. (2005) *J Mol Biol* **351**, 219–32.
7. Van den Berg B, Wain R, Dobson CM, & Ellis RJ. (2000) *Embo J* **19**, 3870–5.
8. Silow M, & Oliveberg M. (2003) *J Mol Biol* **326**, 263–71.
9. Jacob M, Geeves M, Holtermann G, & Schmid FX. (1999) *Nat Struct Biol* **6**, 923–6.
10. Munishkina LA, Cooper EM, Uversky VN, & Fink AL. (2004) *J Mol Recognit* **17**, 456–64.
11. Gekko K, & Ito H. (1990) *J Biochem (Tokyo)* **107**, 572–7.
12. Voziyani PA, & Fisher MT. (2002) *Arch Biochem Biophys* **397**, 293–7.
13. Tieman BC, Johnston MF, & Fisher MT. (2001) *J Biol Chem* **276**, 44541–50.
14. Morar AS, Olteanu A, Young GB, & Pielak GJ. (2001) *Protein Sci* **10**, 2195–9.
15. Patel CN, Noble SM, Weatherly GT, Tripathy A, Winzor DJ, & Pielak GJ. (2002) *Protein Sci* **11**, 997–1003.
16. Ladurner AG, & Fersht AR. (1999) *Nat Struct Biol* **6**, 28–31.
17. Qu Y, Bolen CL, & Bolen DW. (1998) *Proc Natl Acad Sci U S A* **95**, 9268–73.