Crystal Structure of Human Gamma-Glutamyl Hydrolase

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**Introduction:** Gamma-glutamyl hydrolase (GH) removes the poly-gamma-glutamyl tail of antifolate poly-gamma-glutamates and controls intracellular retention of antifolates.

**Methods and Materials:** GH crystallizes in space group P2₁2₁2₁ with cell parameters a = 58.24 Å, b = 155.73 Å, c = 160.71 Å. We anticipate four molecules of the 33 kDa protein per asymmetric unit. Three wavelength MAD phasing data were measured for two different mercury derivatives of gamma-glutamyl hydrolase to 2.4 Å resolution. The data sets are about 95 complete with $R_{sym}$ of 0.06. At this time, phasing calculations are complete and model building and refinement are in progress.