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ALLOSTERIC REGULATION OF GTP CYCLOHYDROLASE I

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We determined high resolution structures of human GCH1 and GCH1-GFRP complexes by cryoEM and X-ray crystallography and studied the mechanisms of allosteric regulation by biophysical methods. Inhibition of the enzymatic activity, a drug discovery target in the field of pain disorders, is not a result of hindrance of substrate binding, but rather a consequence of accelerated substrate binding kinetics.

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