



IGPS enzyme (red) titrated to saturation with the allosteric ligand PRFAR (blue)

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Field strength: 600 MHz

Why is this your favorite spectrum?

Binding of the ligand PRFAR to the IGPS enzyme complex broadens the nearly 60% of its HSQC spectrum, despite binding to a well-defined pocket and contacting only a handful of residues. This broadening suggests a dynamic effect, and it turns out that PRFAR is involved in stimulating widespread millisecond conformational motions that are critical for the function of this enzyme.