



^{13}C -labeled dUMP, free and bound to flavin-dependent thymidylate synthase (wt and mutants)

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Field strength: 600 MHz

Why is this your favorite spectrum?

The changes in ^{13}C chemical shift of the uracil ring of dUMP caused by binding to the enzyme show that the enzyme causes the ionization of N_3 of the pyrimidine ring, activating the ring for subsequent enzymatic transformations.