



^{13}C -HSQC and 1D proton spectra of a methylated histidine within a protein

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Field strength: 800 MHz

Why is this your favorite spectrum?

It shows a methyl chemical shift that is rarely observed in proteins, arising from the natural methylation of a histidine side chain. Moreover, even though the spectra were recorded on a natural-abundance sample, the methyl signal can be readily assigned.

Comments: The blue HSQC peak looks like an UFO flying over a mountain that is its own ^1H dimension.