

Stable Isotope Labeled Ubiquitin

Silantes offers high quality stable isotope labeled ubiquitin for monitoring the performance of NMR-spectrometers and for testing new pulse-sequences.

Stable Isotope Labeled Ubiquitin at Silantes

	Human Ubiquitin
Available isotopic labelings	² H, ¹³ C, ¹⁵ N, ² H ¹⁵ N, ¹³ C ¹⁵ N, ² H ¹³ C ¹⁵ N
Sequence	MQIFVKTLTG KTITLEVEPS DTIENVKAKI QDKEGIPPDQ QRLIFAGKQL EDGRTLSDYN IQKESTLHLV LRLRGG
Molecular weight (of the unlabeled molecule)	8.500 Da
	Available as either free protein or in His-tagged form.

High Quality Standards

We guarantee an isotopic enrichment of > 98 atom %. The isotopic enrichment of the NMR standards is verified by NMR analysis. Figure 1 shows a 2D-NMR spectrum with two superimposed ubiquitin samples: Triple-labeled ubiquitin (${}^{2}H^{13}C^{15}N$) in blue and double-labeled ubiquitin (${}^{13}C^{15}N$) in red.

NMR-spectra for all other probes are available at www.silantes-shop.com.

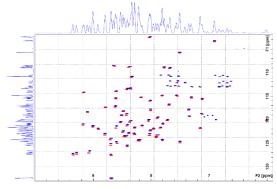


Figure 1: 2D NMR spectra for ${}^{2}H^{13}C^{15}N$ - (blue) and ${}^{13}C^{15}N$ - (red) labeled ubiquitin. Data of this figure were kindly provided by Dr. Richter in Prof. Dr. Harald Schwalbe Group, Goethe University Frankfurt.

Figure 2: SDS-PAGE of ubiquitin

For the chemical purity, we guarantee > 95 %. The chemical purity of ubiquitin is verified by electrophoresis for ubiquitin (see figure 2).

Ready-to-use

Our NMR standards are available in both solid powder form and as concentrated solution (550 μ L) prepackaged in a ready-to-use 5 mm NMR tube.

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