Ubiquilabel[™], Ubiquitin [¹³C (99%), ¹⁵N (98%)] Cat. # NS102

Background:	¹³ C and ¹⁵ N, heavy-labeled ubiquitin provides a stable standard for ubiquitin structural study by NMR. The recombinant human ubiquitin is purified from <i>E.coli</i> expressing the human ubiquitin gene. The cells are grown in media where the sole nitrogen source is ¹⁵ N labeled ammonium sulfate and the sole carbon source is ¹³ C glucose. The recombinant human ubiquitin is purified without heating by a proprietary procedure that preserves the native structure of the protein. The purified protein is homogenous when analyzed by overloaded SDS gels. The pools of purified protein solution are extensively dialyzed against water and lyophilized.
Application:	Heavy-labeled ubiquitin for NMR studies
Product Informa	ion
Purity:	98% by RP-HPLC
Protein:	Ubiquitin
Atom% Enri	hment: ¹³ C (99%), ¹⁵ N (98%)
Physical Sta	e: Lyophilized powder
Quantity:	5mg or 10mg
Solubility:	>30mg/ml in aqueous solution
Storage:	-20°C

References

- 1. Tjandra, N., Feller, S.E., Pastor, R.W. & Bax, A. Rotational diffusion anisotropy of human ubiquitin from ¹⁵N NMR relaxation. *J. Am. Chem. Soc.* **117**, 12562-12566 (1995)
- 2. DiStefano, D.L. & Wand, J.A. Two-dimensional proton NMR study of human ubiquitin: a main chain directed assignment and structure analysis. *Biochemistry* **26**, 7272-7281 (1987).

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CONTACT: LifeSensors, Inc. | 271 Great Valley Parkway | Malvern, PA 19355 | 610.644.8845 | www.lifesensors.com

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