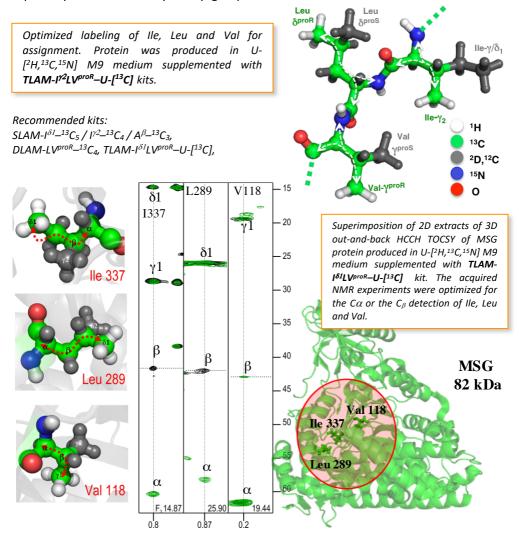


## **Kits for Methyl Groups Assignment**

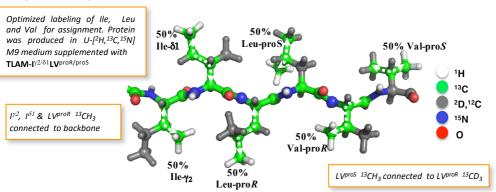
User-friendly solutions for the sequential assignment of Ala, Ile, Leu & Val methyl groups.

**NMR-Bio** has optimized kits for the assignment of Alanine, Isoleucine, Leucine and Valine residues. Precursors are designed to connect regio- or stereospecific labeled  $^{13}CH_3$  group to the  $^{15}N/^{13}C$  backbone nuclei via *a linear*  $^{13}C$  *spin system*. Use our labeling kits to assign separately or simultaneously methyl groups of different amino acids.



Sequential and side chains assignment with stereo- and regio- specific identification of all Ala, Ile, Leu and Val methyl groups using a single sample and a single NMR experiment!

The new NMR-Bio combinatorial labeling kit permits to assign simultaneously Ala- $\beta$ , Ile- $\beta_1$ , Ile- $\gamma_2$ , Leu- $\delta_1$ , Leu- $\delta_2$ , Val- $\gamma_1$  and Val- $\gamma_2$  using a single triple resonance NMR experiment (Out-and-Back HCCH TOCSY ) and just one sample.



Examples of kits	<sup>13</sup> CH₃ groups Labeled	Prices* (1 kit for 1 L. of culture )
SLAM-I <sup>δ1</sup> - <sup>13</sup> C <sub>5</sub>	$IIe^{\delta 1}$	420 €
SLAM-I $^{\gamma 2}$ -13C <sub>4</sub>	$IIe^{\gamma 2}$	695 €
SLAM-V <sup>proR</sup> -13C <sub>4</sub>	Val <sup>proR</sup>	695 €
DLAM-LV <sup>proR</sup> - <sup>13</sup> C <sub>4</sub>	Leu <sup>proR</sup> Val <sup>proR</sup>	550€
DLAM-LV <sup>proY</sup>	Leu <sup>proS</sup> Va  <sup>proS</sup> LV <sup>proS 13</sup> CH <sub>3</sub> connected to LV <sup>proR 13</sup> CD <sub>3</sub> Through a linear <sup>13</sup> C spin system	550€
DLAM-I $^{\delta 1}$ V $^{proR}$ -U-[ $^{13}$ C]	$IIe^{\delta 1} Val^{proR}$	1120€
DLAM-I <sup>γ2</sup> V <sup>proR</sup> -U-[ <sup>13</sup> C]	Ile <sup>γ2</sup> Val <sup>proR</sup>	1150 €
TLAM-I <sup>y2</sup> LV <sup>proR</sup> -U-[ <sup>13</sup> C]	lle <sup>γ2</sup> Leu <sup>proR</sup> Val <sup>proR</sup>	1000€
TLAM-I <sup>δ1</sup> LV <sup>proR</sup> -U-[ <sup>13</sup> C]	lle <sup>δ1</sup> Leu <sup>proR</sup> Val <sup>proR</sup>	970 €
$ \begin{array}{c} \text{TLAM-I} \gamma 2/\delta 1 \\ \text{LVproR} & \text{LVproR} & \text{^{13}CH}_3 \text{ connected to backbone LVproS} \\ \text{^{13}CH}_3 & \text{connected to LVproR} & \text{^{13}CD}_3 \end{array} $	$\sf Ile^{\delta 1/\gamma 2}$ Leu $\sf proR/proS$ Val $\sf proR/proS$ Kerfah et al., J Biomol NMR. 2015; 63(4):389-402	1100€

For any kit including  $U^{-13}C$ -Ala- $\beta$ , please inquire!



