Isotec® Stable Isotopes

Stable Isotope Labeled Alpha Ketoacids
for protein synthesis using ILV labeling

The use of labeled α-ketoacids has been invaluable for enabling solution NMR studies of progressively larger proteins. Selective incorporation of $^{13}$C and deuterium labels into methyl groups of leucine, valine, and isoleucine residues enhances sensitivity and resolution at desired protein locations\(^1\).\(^2\). Initial successes in solution NMR has led to more challenging applications in solid-state NMR\(^3\).

Many α-ketoacids are available as standard products, and custom products can also be prepared.
For all stable isotope products and information, visit [isotec.com](http://isotec.com).

For more information on these services or to request a custom quote, contact:

**Stable Isotopes Customer Service**
Phone: (937) 859-1808
US and Canada: (800) 488-9760
Fax: (937) 859-4878
Email: isosales@sial.com
Website: [SigmaAldrich.com/isotec](http://SigmaAldrich.com/isotec)