

BIOMOLECULAR NMR

Products for Biomolecular NMR

Production of isotope labeled proteins has become easily accessible to today's biochemists. A variety of isotope labeled substrates are readily available for feeding the genetically modified microorganisms, which produce the proteins of research interest. These growth media components include ^{13}C -labeled glucose, ^{13}C -, ^{13}C , ^{15}N -, ^{13}C , D-, ^{15}N , D-labeled amino acids, ^{15}N -ammonium chloride and even isotope-enriched growth media tailored for specific microorganisms. Alternatively, the proteins can be prepared from isotope labeled amino acids using Cell Free Synthesis. As a result, scientists can harvest isotope labeled proteins and other interesting bio-molecules for scientific research in a relatively short period of time, a process that was only imagined not long ago.

Product Description	Atom%	Product Code	Size
2-Keto-3-methyl- ^{13}C -butyric-4- ^{13}C acid, sodium salt	99% ^{13}C	57,133-4	100 mg
2-Keto-3-methyl- ^{13}C -butyric-4- ^{13}C , 3- d_1 acid, sodium salt	99% ^{13}C ; 98% D	58,906-3	100 mg
2-Keto-3-methylbutyric acid- $^{13}\text{C}_5$, 3- d_1 , sodium salt	99% ^{13}C ; 98% D	60,756-8	250 mg
2-Keto-3-methyl- d_3 -butyric acid-1,2,3,4- $^{13}\text{C}_4$, sodium salt	99% ^{13}C ; 98% D	59,641-8	100 mg
2-Keto-3-methyl- d_3 -butyric-4- ^{13}C acid, sodium salt	99% ^{13}C ; 98% D	59,490-3	100 mg
2-Ketobutyric acid- $^{13}\text{C}_4$, 3,3- d_2 , sodium salt•xH ₂ O (98% CP)	99% ^{13}C ; 97-98% D	60,754-1	100 mg
2-Ketobutyric-4- ^{13}C acid, sodium salt•xH ₂ O (97% CP)	99% ^{13}C	57,134-2	250 mg
2-Ketobutyric-4- ^{13}C , 3,3, 4,4,4- d_3 acid, sodium salt•xH ₂ O (98% CP)	99% ^{13}C ; 98% CD_2 ; 50-70 CD_3	60,753-3	100 mg
2-Keto-4-methylpentanoic acid-1- ^{13}C , sodium salt	99% ^{13}C	48,771-6	250 mg
2-Keto-4-methylpentanoic- d_3 acid, sodium salt	98% D	61,662-1	500 mg
2-Ketobutyric-4- ^{13}C , 3,3- d_2 acid, sodium salt•xH ₂ O (98% CP)	99% ^{13}C ; 98% D	58,927-6	bulk available
Sodium Pyruvate-3- ^{13}C	99% ^{13}C	49,073-3	250 mg
Sodium Pyruvate-3- ^{13}C , 3,3,3- d_3	99% ^{13}C ; 50-60 D	60,848-3	1 gm
Water- ^{18}O (99% ^{18}O)	99% ^{18}O	48,709-0	1 gm
Acrylamide-2,3,3- d_3	98%D	63,656-8	bulk available
Acrylonitrile- d_3 (stabilized)	98%D	48,531-4	1 gm
Ammonium- $^{14}\text{N}_2$ Sulfate (^{15}N depleted)	99.99% ^{14}N	48,541-1	bulk available
Potassium Nitrate- ^{14}N (^{15}N depleted)	99.99% ^{14}N	60,875-0	bulk available
D-Glucose-C- d_7	98%D	55,200-3	100 mg, 1 gm, 10 gm
D-Glucose- $^{12}\text{C}_6$	99.9% ^{12}C	49,516-7	500 mg

For larger quantity requests, please contact Isotec at 1-800-448-9760 or (937) 859-1808 or email at isosales@sial.com.