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Stable Isotope Labeling with Amino Acids in Cell Culture

National Cancer Institute

Source

National Cancer Institute. <u>Stable Isotope Labeling with Amino Acids in Cell Culture</u>. NCI Thesaurus. Code C161804.

A method for generating labeled proteins or peptides for mass spectrometry analysis that leverages the cellular protein translation machinery. Briefly, cells are grown through several rounds of cell division in a culture medium that lacks a standard essential amino acid and insteady contains a non-radioactive isotope-labeled version of that amino acid. After a set number of cell doublings, each occurrence of the essential amino acid will be replaced with the labeled analog.

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