



NucleoSyn provides custom

# Stable Isotope (<sup>2</sup>H, <sup>15</sup>N, <sup>13</sup>C) Labeled Compounds

to support projects dedicated to:

- Bioanalytics
- Omics research
- Molecular imaging
- Biomarker discovery



CUSTOM STABLE ISOTOPE LABELING SERVICES

STABLE ISOTOPE
LABELED COMPOUNDS

LIFE SCIENCE APPLICATIONS

TYPICAL PRODUCT PACKAGING



a Biosolve Group company

# **NucleoSyn provides** custom Stable Isotope Labeled (SIL) Compounds

NucleoSyn, leading supplier of innovative DNA & RNA related products and synthetic lipids, launches new product line & services dedicated to support your bioanalytical, Omics and ADME/DMPK projects: Stable Isotope Labeled (SIL) Compounds.



## For a variety of applications in Life Sciences



Stable Isotope Labeled Compounds used as:

Tracers in metabolism and Omic studies using mass spectrometry or NMR spectroscopy



Internal standards in quantitative bioanalysis by LC / MS

Tools to enhance PK of drugs, drug candidates (Deuterium medicinal chemistry)



Tracers for assessing absolute bioavailability of drug candidate



and more...

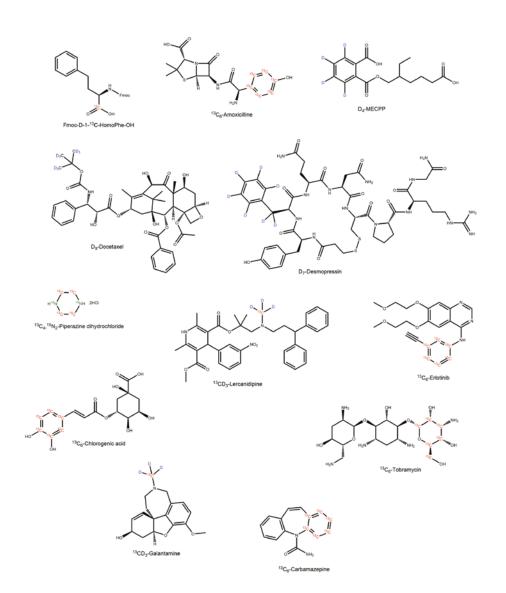


### **Custom Stable Isotope Labeling Services**

- of chemotypes: heterocycle, natural product, amino acid & peptide...
- · For stable isotope dilution assays, prefered labeled isotopes: 15N & 13C (Golden Standard) over <sup>2</sup>H labeling in order to ensure optimum co-elution with the unlabeled analytes and optimum isotopic purity
- Experience of labeling a wide range Incorporation of isotopic labels at specific positions of the compound, including site selective and multiple site selective schemes
  - Custom <sup>2</sup>H, <sup>15</sup>N, <sup>13</sup>C, building blocks and reagents synthesis
  - Either with <sup>2</sup>H, <sup>15</sup>N or <sup>13</sup>C or a combination of them



## **Stable Isotope Labeled Compounds** (2H, 15N, 13C): Few examples





## **Typical Product Packaging**

- · Any size possible from µg to multigram quantities
- · In pure form or standardized solution
- · In low actinic amber color glassware (light sensitive product)
- · Under argon (air sensitive product)

#### **Shipment:**

- · Shipped cold (e.g. dry ice shipping for temperature sensitive product if necessary)
- · Worldwide delivery





Autumn 2017

**SPECIAL REPORT** 

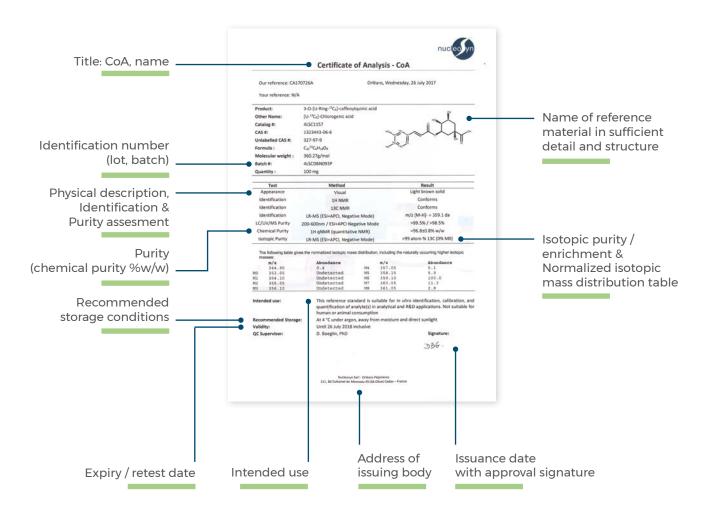


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# **Typical Certificate of Analysis (CoA)**

for Custom Stable Isotope Labeled Analytical Standard

#### **CoA includes:**



Life Science
CHEMICALS

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#### **NUCLEOSYN**

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