

L-Methionine (Methyl-¹³C)

Catalog Number A39248

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WARNING! Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from thermofisher.com/support.

Product description

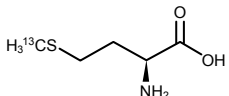
L-Methionine (Methyl-¹³C) is a sulfur-containing amino acid that is commonly used for isotopic labeling of methyl groups in methionine residues of proteins for NMR spectroscopy studies. Methionine is a common methyl-group donor to various substrates, such as creatine, epinephrine, ergosterol, and choline.

For detailed instructions on protein labeling with L-Methionine (Methyl-¹³C) in Expi293F™ cells, refer to *Expi293™ Expression System User Guide* (MAN0007814) at thermofisher.com.

Contents and storage

Contents	Amount	Storage
L-Methionine (Methyl- ¹³ C)	225 mg	<ul style="list-style-type: none"> Room temperature Protect from light and moisture

Specifications

Information	Details
CAS number	49705-26-02 (labeled)
EC number	200-562-9 (unlabeled)
Synonyms	[S]-2-Amino-4-(Methylmercapto)butyric acid, L-2-Amino-4-(methylthio)cutanoic acid
Empirical formula	*CH ₃ SCH ₂ CH ₂ CH(NH ₂)COOH
Structure	
Atom Purity	99% ¹³ C isotopic atom purity
Chemical Purity	98%
Molecular weight	150.2 g/mol
Solubility	Soluble in water

Required materials not supplied

Unless otherwise indicated, all materials are available through thermofisher.com. MLS: Fisher Scientific (fisherscientific.com) or other major laboratory supplier.

Item	Source
Expi293F™ cells	A14527
Expi293™ Expression Medium	A1435101
Expi293™ Met (-) Expression Medium	A4096701
Expi293™ Met (-) Protein Labeling Kit	A41249
ExpiFectamine™ 293 Met (-) Transfection Kit	A39249
Opti-Plex™ Complexation Buffer	A4096801
Nalgene™ Single-Use PETG Erlenmeyer Flasks with Plain Bottom: Sterile	4115-0125

Handling guideline

- Always wear gloves, mask, a laboratory coat, and safety glasses when handling L-Methionine (Methyl-¹³C) and L-Methionine (Methyl-¹³C)-containing solutions.
- Keep container tightly sealed.
- Ensure good ventilation at the workplace.
- Open and handle container with care.

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale at www.thermofisher.com/us/en/home/global/terms-and-conditions.html. If you have any questions, please contact Life Technologies at www.thermofisher.com/support.



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Revision	Date	Description
A.0	14 April 2019	New document.

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