Lys/Arg-Labeled Protein for Quantitative Analysis

Premixed reagents include L-Lys \(^{13}C_6,^{15}N_2\) and L-Arg \(^{13}C_6,^{15}N_4\).

99% labeling efficiency.

Optimized in vitro transcription and translation reagents.

Fast preparation of protein for quantitative mass spectrometry (SRM/MRM) directly from DNA

One reaction produces ~30 µg of crude DHFR protein per reaction (positive control)

Wheat germ cell-free protein expression works for a wide range of prokaryotic and eukaryotic proteins

Protein expression made easy: Obtain Template > Express Protein > Confirm Expression!

Example of data using DHFR (positive control):

Incorporation rate 99.1%

Histidine DHFR (His-DHFR)

Glutathione S-Transferase DHFR (GST-DHFR)

Data kindly provided by Dr. Junichi Kamiie, Faculty of Veterinary Medicine, Laboratory of Veterinary Pathology, Azabu University

These products and components of the products are intended for research use only. The vector contained in the products is licensed for concurrent use with the product. A license from CellFree Sciences Co., Ltd. is required for use other than research purposes. Product specifications listed on the reverse are subject to change without any prior notice.

Reference code CFS-MS-15 when ordering. Offer is good until 5/1/15 and is only valid for US and Canadian customers.
Example of expression data using DHFR (positive control):

M: Molecular weight marker
NC: Negative control (3 µL)
T: Total fraction (crude, 3 µL)
FT: Flow through (3 µL)
E1: First elution fraction (2 µL)
E2: Second elution fraction (5 µL)

Over 30 µg protein obtained using His- or GST-tag.

* Detected protein

Ordering Information

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Description</th>
<th>Storage</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDX-PLUS-MS</td>
<td>Premium PLUS Expression Kit for MS</td>
<td>-80°C</td>
<td>1 kit</td>
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Kit contains reagents for 16 × 226 µL reactions.

Kit contains:
• pEU-E01-MCS vector (expression vector)
• pEU-E01-DHFR vector (positive control)
• PCR primer set (SPU, deSP6E01)
• Transcription premix LM
• WEPRO9240 for MS
• SUB-AMIX SGC for MS (provided in ready-to-use reaction cups)
• Aluminum seals for reaction cups

Shelf life: 1 year

• CFS can provide expression vectors using His-tag free of charge
• CFS provides protein expression and labeling services for use in protein MS
• CFS Protein Research Kits provide the same reaction format to prepare unlabeled proteins
• Visit cfsciences.com for detailed information regarding all CFS products and services
• Follow CellFree Sciences on LinkedIn for updates on their products and services

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CFS protein-expression reagents and kits are distributed in North America by Cambridge Isotope Laboratories, Inc. (CIL).

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