

Product Information

SILu™ MAb Mouse - Stable Isotope Labeled Monoclonal Antibody Standard

mouse, recombinant, expressed in CHO cells

Catalog Number **MSQC10**

Storage Temperature $-20\text{ }^{\circ}\text{C}$

Product Description

SILu™ MAb Mouse is a recombinant, stable isotope-labeled, mouse monoclonal antibody, which incorporates [$^{13}\text{C}_6$, $^{15}\text{N}_4$]-Arginine and [$^{13}\text{C}_6$, $^{15}\text{N}_2$]-Lysine. Expressed in CHO cells, SILu MAb Mouse is designed to be used as a universal internal standard for bioanalysis of monoclonal murine antibodies in animal pharmacokinetics (PK) studies.

SILu MAb Mouse is an IgG1 antibody with a kappa light chain. Because of overlap with common sequences in the Fc region with candidate murine antibodies, SILu MAb Mouse provides universal utility, and thus, eliminates the need to produce candidate-specific internal standards.

Each vial of SILu MAb Mouse contains the labeled antibody lyophilized from a solution of phosphate buffered saline. Vial content was determined by measuring A_{280} and using an extinction coefficient ($E^{0.1\%}$) of 1.4.

Sequence Information

SILu MAb Mouse Heavy Chain:

QVQLQQSAEELARPGASVKMSCKASGYSFTTYTIHWVKQRPGQGL
EWIGYINPSSGYAAYNQNFKDETTLTADPSSSTAYMELNSLTSED
SAVYYCAREKFYGYDYWGQATLTVSSAKTTPPSVYPLAPGSAAQ
TNSMVTGLCLVKGYFPEPVTVTWNSGSLSSGVHTFPAVLQSDLYT
LSSSVTVPSSTWPSSETVTCNVVAHPASSTKVDKIKIVPRDCGCKPCI
CTVPEVSSVFIFFPKPKDVLITITLTPKVTCTVVDISKDDPEVQFS
WFDVDDVEVHTAQTQPREEQFNSTFRSVSELPIMHQDWLNGKEFKC
RVNSAAPPAPIEKTIKTKGRPKAPQVYTI PPPKEQMAKDKVSLT
CMITDFFPEDITVEWQWNGQPAENYKNTQPIIMDTDGSYFVYSKLN
VQKSNWEAGNTFTCSVLHEGLHNHHTKSLSHSPG

SILu MAb Mouse Light Chain:

DVLMTQIPLSLPVSLGDAQASISCRSSQSIVHRNGNTYLEWYLLKP
GQSPKLLIYKVSNRFGVDFRFSGSGSGTDFTLKISRVEAEDLGV
YYCFQGSHPVYTFGGGKLEIRRADAAPTVSIFPPSSEQLTSGGA
SVVCFLLNNFYPKDINVKWKIDGSRQNGVLNSWTDQDSKDYSTM
SSTLTLLTKDEYERHNSYTCEATHKKTSTSPIVKSFNRNEC

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

SILu MAb Mouse recovery is maximized when 0.1% formic acid is used for reconstitution of the lyophilized product.

Reconstitution with other solvents may reduce recovery. Do not freeze after reconstitution.

1. Briefly centrifuge the vial at $\sim 10,000 \times g$ to collect the product at the bottom of the vial.
2. Add 500 μL of ultrapure water containing 0.1% formic acid to the vial.
3. Mix the contents by gently inverting the vial a minimum of 5 times.
4. Allow the vial to stand at room temperature for at least 15 minutes and repeat mixing by inversion.

Storage/Stability

Store the lyophilized product at $-20\text{ }^{\circ}\text{C}$.

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