SIGMA-ALDRICH®

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Product Information

SILu™MAb Pembrolizumab - Stable Isotope Labeled Monoclonal Antibody Standard recombinant, expressed in CHO cells

Catalog Number **MSQC25** Storage Temperature –20 °C

Product Description

SILu[™]MAb Pembrolizumab is a recombinant, stable isotope-labeled, monoclonal antibody which incorporates [¹³C₆, ¹⁵N₄]-Arginine and [¹³C₆, ¹⁵N₂]-Lysine. Expressed in CHO cells, SILu[™]MAb Pembrolizumab is designed to be used as an internal standard for analysis of Pembrolizumab in human serum.

Recommended surrogate peptide sequences are indicated in Table 1. Suggested MRM parameters are available for download in several formats on the product display page at www.sigmaaldrich.com.

Each vial of SILuTMMAb Pembrolizumab contains 100 μ g of the labeled antibody lyophilized from a solution of phosphate buffered saline. Vial content was determined by measuring A₂₈₀ and using an extinction coefficient (E^{0.1%}) of 1.4.

Sequence Information

SILu™MAb Pembrolizumab Heavy Chain:

QVQLVQSGVEVKKPGASVKVSCKASGYTFTNYYMYWVRQAP GQGLEWMGGINPSNGGTNFNEKFKNRVTLTTDSSTTTAYME LKSLQFDDTAVYYCARRDYRFDMGFDYWGQGTTVTVSSAST KGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSG ALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTKTYTCNV DHKPSNTKVDKRVESKYGPPCPPCPAPEFLGGPSVFLFPPK PKDTLMISRTPEVTCVVVDVSQEDPEVQFNWYVDGVEVHNA KTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGL PSSIEKTISKAKGQPREPQVYTLPPSQEEMTKNQVSLTCLV KGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSRL TVDKSRWQEGNVFSCSVMHEALHNHYTQKSLSLSLG

SILu™MAb Pembrolizumab Light Chain:

EIVLTQSPATLSLSPGERATLSCRASKGVSTSGYSYLHWYQ QKPGQAPRLLIYLASYLESGVPAR**FSGSGSGTDFTLTISSL** EPEDFAVYYCQHSRDLPLTFGGGTKVEIKRTVAAPSVFIFP PSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQ ESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGL SSPVTKSFNRGEC

Precautions and Disclaimer

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 Pembrolizumab 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 $10,000 \times g$ to collect the product at the bottom of the vial.
- 2. Add 500 μ L 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 °C.

Table 1.

Pembrolizumab-specific peptide sequences liberated from SILu™MAb Pembrolizumab by tryptic digest

Unique Peptide Sequence	Location
FSGSGSGTDFTLTISSLEPEDFAVYY <u>C</u> QHS R	Light chain

Legal Information

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