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# **Product Information**

# SILu™MAb Vedolizumab - Stable Isotope Labeled Monoclonal Antibody Standard

recombinant, expressed in CHO cells

Catalog Number **MSQC29** Storage Temperature –20 °C

#### **Product Description**

SILu<sup>™</sup>MAb Vedolizumab is a recombinant, stable isotope-labeled, monoclonal antibody which incorporates [¹³C<sub>6</sub>, ¹⁵N<sub>4</sub>]-Arginine and [¹³C<sub>6</sub>, ¹⁵N<sub>2</sub>]-Lysine. Expressed in CHO cells, SILu<sup>™</sup>MAb Vedolizumab is designed to be used as an internal standard for analysis of Vedolizumab 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 SILu<sup>TM</sup>MAb Vedolizumab contains 100  $\mu g$  of the labeled antibody lyophilized from a solution of phosphate buffered saline. Vial content was determined by measuring A<sub>280</sub> and using an extinction coefficient (E<sup>0.1%</sup>) of 1.4.

# Sequence Information

## SILu™MAb Vedolizumab Heavy Chain:

QVQLVQSGAEVKKPGASVKVSCKGSGYTFTSYWMHWVRQAP GQRLEWIGEIDPSESNTNYNQKFKGRVTLTVDISASTAYME LSSLRSEDTAVYYCARGGYDGWDYAIDYWGQGTLVTVSSAS TKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNS GALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICN VNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELAGAPSVFL FPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVE VHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVS NKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSL TCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFL YSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG

## SILu™MAb Vedolizumab Light Chain:

DVVMTQSPLSLPVTPGEPASISCR**SSQSLAK**SYGNTYLSWY LQKPGQSPQLLIYGISNRFSGVPDRFSGSGSGTDFTLKISR VEAEDVGVYYCLQGTHQPYTFGQGTKVEIKRTVAAPSVFIF PPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNS QESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQG LSSPVTKSFNRGEC

#### **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 Vedolizumab 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  $\mu$ L of ultrapure water containing 0.1% formic acid to the vial.
- 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.**Vedolizumab-specific peptide sequences liberated from SILu™MAb Vedolizumab by tryptic digest

Unique Peptide Sequence	Location
LEWIGEIDPSESNTNYNQ <b>K</b>	Heavy chain
SSQSLAK	Light chain

### **Legal Information**

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