



**Product name** PEMBROLIZUMAB-Like  
Labelled standard



**Catalog number** KEH95331

## Product description

Labelled Pembrolizumab-like is a recombinant, stable isotope labelled IgG4-Kappa monoclonal antibody containing proteotypic peptides derived from Pembrolizumab's originator sequence. Labelled Pembrolizumab-like is designed for use as an internal standard for quantitative analysis of Pembrolizumab in plasma samples. Pembrolizumab targets the immune checkpoint programmed death receptor-1 (PD-1) and is used to treat a number of cancers

**Similar products:** Labelled Nivolumab-like, Labelled Ipilimumab-like

## Proteotypic peptide sequences

### Heavy chain

ASGYTFTNYYMYWVR  
QAPGQGLEWMGGINPSNGGTNFNEK

### Light Chain

DLPLTFGGGTK

## Product features and protocols

### Key features

- 1 Purity >95%  
as determined by SDS-PAGE
- 2 Labelling Arg-<sup>13</sup>C<sub>6</sub>, <sup>15</sup>N<sub>4</sub> | Lys-<sup>13</sup>C<sub>6</sub>, <sup>15</sup>N<sub>2</sub>
- 3 Isotopic incorporation >99%  
as determined by LC-MS/MS analysis of digested SIL-mAb

### Other features

Expression System	Mammalian cells
Protein content	Quantitation is carried out by UV Absorbance at 280 nm
Formulation	Lyophilized from buffer: 5 mM Histidine pH6; 60 mM trehalose; 0.01% Polysorbate 20.

### Product preparation

For product preparation we recommend the following steps:

1. Briefly centrifuge the tube before opening
2. Reconstitute by adding the appropriate volume of ultrapure water for a final concentration of 200 µg/ml (e.g. 50 µl for 10 µg or 250 µl for 50 µg)
3. Vortex gently to insure complete dissolution
4. Wait 15 minutes at room temperature before proceeding further
5. Vortex gently again and centrifuge briefly

### Product storage

The product is lyophilized and shipped at ambient temperature. **Store at -80 °C upon receipt.**

After reconstitution, the protein can be preserved at 4°C for a few weeks.

### Avoid multiple freeze-thaw cycles

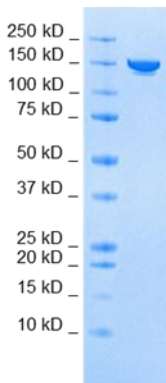
## How to use our product



SIL mAbs are used as an internal standards by addition at the start of a sample preparation workflow. Both Labeled and target therapeutic mAbs will be processed throughout the entire analytical procedure controlling for variability caused by pre-analytical treatments or incomplete enzymatic digestion (1).



## Supporting information



SDS-PAGE gel analysis of PEMBROLIZUMAB-Like protein in non-reducing/ non heated conditions (NR/NH) and Stained with Coomassie blue

## References

1. **D. Lebert, G.Picard, et al.** Absolute and multiplex quantification of antibodies in serum using PSAQ™ standards and LC-MS/MS, *Bioanalysis*. 2015, 7, 1237-51.



The product is intended for research use only. Not for diagnostic or therapeutic use.

## Legal

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